VPDES PERMIT PROGRAM FACT SHEET

This document gives pertinent information concerning the VPDES Permit listed below. This permit is being processed as a **MAJOR, MUNICIPAL** permit.

1. **PERMIT NO.**: VA0081311 **EXPIRATION DATE**: 1/27/2013

2. **FACILITY NAME AND LOCAL MAILING ADDRESS**

Hampton Roads Sanitation District
York River STP
1436 Air Rail Ave
Virginia Beach, VA 23455

FACILITY LOCATION ADDRESS (IF DIFFERENT)

515 Back Creek Road
Seaford, VA 23696

CONTACT AT FACILITY:
NAME: Jamie Heisig-Mitchell
TITLE: Chief of Technical Services
PHONE: (757) 460-4220

CONTACT AT LOCATION ADDRESS
NAME: N/A
TITLE:
PHONE:

3. **OWNER CONTACT**: (TO RECEIVE PERMIT)
NAME: Mr. Edward G. Henifin
TITLE: General Manager
COMPANY NAME: HRSD
ADDRESS: 1436 Air Rail Ave
Virginia Beach, VA 23455

PHONE: (757) 460-2261

CONSULTANT CONTACT:
NAME: N/A
FIRM NAME:
ADDRESS:

PHONE: ( )

4. **PERMIT DRAFTED BY**: DEQ, Water Permits, Regional Office

Permit Writer(s): Deanna Austin DDA Date(s): 3/7/12-3/16/12
Reviewed By: Mark Sauer (MS) Date(s): 3/21-22/12

5. **PERMIT ACTION:**

( ) Issuance (X) Reissuance ( ) Revoke & Reissue ( ) Owner Modification
( ) Board Modification ( ) Change of Ownership/Name [Effective Date:]

6. **SUMMARY OF SPECIFIC ATTACHMENTS LABELED AS**:

Attachment 1	Site Inspection Report/Memorandum
Attachment 2	Discharge Location/Topographic Map
Attachment 3	Schematic/Plans & Specs/Site Map/Water Balance
Attachment 4	TABLE I - Discharge/Outfall Description
Attachment 5	TABLE II - Effluent Monitoring/Limitations
Attachment 6	Effluent Limitations/Monitoring Rationale/Suitable Data/Antidegradation/Antibacksliding
Attachment 7	Special Conditions Rationale
Attachment 8	Toxics Monitoring/Toxics Reduction/WET Limit Rationale
Attachment	Material Stored
Attachment 9	Receiving Waters Info./Tier Determination/STORET Data/Stream Modeling
Attachment 9	303(d) Listed Segments
Attachment 10	TABLE III(a) and TABLE III(b) - Change Sheets
Attachment 11	NPDES Industrial Permit Rating Worksheet and EPA Permit Checklist
Attachment 12	Chronology Sheet
Attachment	Public Participation

APPLICATION COMPLETE: VDH Response 3/9/12 DSS 4/4/12

PERMIT CHARACTERIZATION: (Check as many as appropriate)

(X) Existing Discharge
( ) Proposed Discharge
(X) Municipal
SIC Code #4952
( ) Industrial
SIC Code(s)
(X) POTW
( ) PVOTW
( ) Private
( ) Federal
( ) State
( ) Publicly-Owned Industrial

(X) Effluent Limited
(X) Water Quality Limited
( ) WET Limit
( ) Interim Limits in Permit
( ) Interim Limits in Other Document
( ) Compliance Schedule Required
( ) Site Specific WQ Criteria
( ) Variance to WQ Standards
( ) Water Effects Ratio
(X) Discharge to 303(d) Listed Segment
( ) Toxics Management Program Required
( ) Toxics Reduction Evaluation
( ) Storm Water Management Plan
(X) Pretreatment Program Required
( ) Possible Interstate Effect
(X) CBP Significant Dischargers List

8. **RECEIVING WATERS CLASSIFICATION**: River basin information.

Outfall No: 001

Receiving Stream: York River
River Mile: 8-YRK002.76/3.37
Basin: York River
Subbasin: N/A
Section: 1
Class: II
Special Standard(s): a
Tidal: YES
7-Day/10-Year Low Flow: N/A
1-Day/10-Year Low Flow: N/A
30-Day/5-Year Low Flow: N/A
Harmonic Mean Flow: N/A

Outfall No(s): 002, 003, 005-007

Receiving Stream: Back Creek
River Mile: 7-BRC001.79
Basin: Chesapeake Bay, Atlantic Ocean and Small Coastal Basins
Subbasin: N/A
Section: 2
Class: II
Special Standard(s): a
Tidal: YES
7-Day/10-Year Low Flow: N/A
1-Day/10-Year Low Flow: N/A
30-Day/5-Year Low Flow: N/A
Harmonic Mean Flow: N/A

9. **FACILITY DESCRIPTION:** Describe the type facility from which the discharges originate.

Existing municipal discharge resulting from the discharge of treated domestic sewage.

10. **LICENSED OPERATOR REQUIREMENTS**: ( ) No (X) Yes Class: I

11. **RELIABILITY CLASS**: I

12. **SITE INSPECTION DATE**: 5/3/11 **REPORT DATE**: 5/4/11

Performed By: Mark Kidd

SEE ATTACHMENT 1

13. **DISCHARGE(S) LOCATION DESCRIPTION**: Provide USGS Topo which indicates the discharge location, significant (large) discharger(s) to the receiving stream, water intakes, and other items of interest.

Name of Topo: Poquoson West Quadrant No.: 65B **SEE ATTACHMENT 2**

14. **ATTACH A SCHEMATIC OF THE WASTEWATER TREATMENT SYSTEM(S) [IND. & MUN.]. FOR INDUSTRIAL FACILITIES, PROVIDE A GENERAL DESCRIPTION OF THE PRODUCTION CYCLE(S) AND ACTIVITIES. FOR MUNICIPAL FACILITIES, PROVIDE A GENERAL DESCRIPTION OF THE TREATMENT PROVIDED.**

Narrative: This facility provides secondary treatment and enhanced nutrient removal. Treatment is provided by screening, grit removal, primary clarification, aeration, secondary clarification, denitrification filters, chlorination and dechlorination. Biosolids are treated by anaerobic digestion, gravity belt thickening, and centrifuge dewatering prior to disposal. Biosolids are treated for composting by McGill Environmental Systems. As a backup plan, Biosolids can be incinerated at another HRSD facility, primarily Boat Harbor STP or landfilled at Bethel Landfill in Hampton VA.

SEE ATTACHMENT 3

15. **DISCHARGE DESCRIPTION**: Describe each discharge originating from this facility.

SEE **TABLE I** (OR CAN SUBSTITUTE PAGE 2C) - **SEE ATTACHMENT 4**

16. **COMBINED TOTAL FLOW**:

TOTAL: 15.08 MGD (for public notice)

PROCESS FLOW: _____ MGD (IND.)

NONPROCESS/RAINFALL DEPENDENT FLOW: 0.085 (Est.)

DESIGN FLOW: 15 MGD (MUN.)

17. **STATUTORY OR REGULATORY BASIS FOR EFFLUENT LIMITATIONS AND SPECIAL CONDITIONS**: (Check all which are appropriate)

- [X] State Water Control Law
- [X] Clean Water Act
- [X] VPDES Permit Regulation (9 VAC 25-31-10 et seq.)
- [X] EPA NPDES Regulation (Federal Register)
- [ ] EPA Effluent Guidelines (40 CFR 133 or 400 - 471)
- [X] Water Quality Standards (9 VAC 25-260-5 et seq.)
- [ ] Wasteload Allocation from a TMDL or River Basin Plan

18. **EFFLUENT LIMITATIONS/MONITORING**: Provide all limitations and monitoring requirements being placed on each outfall.

SEE TABLE II - ATTACHMENT 5

19. **EFFLUENT LIMITATIONS/MONITORING RATIONALE**: Attach any analyses of an outfall by individual toxic parameter. As a minimum, it will include: statistics summary (number of data values, quantification level, expected value, variance, covariance, 97th percentile, and statistical method); wasteload allocation (acute, chronic and human health); effluent limitations determination; input data listing. Include all calculations used for each outfall and set of effluent limits and those used in any model(s). Include all calculations/documentation of any antidegradation or anti-backsliding issues in the development of any limitations; complete the review statements below. Provide a rationale for limiting internal waste streams and indicator pollutants. Attach chlorine mass balance calculations, if performed. Attach any additional information used to develop the limitations, including any applicable water quality standards calculations (acute, chronic and human health).

OTHER CONSIDERATIONS IN LIMITATIONS DEVELOPMENT:

VARIANCES/ALTERNATE LIMITATIONS: Provide justification or refutation rationale for requested variances or alternatives to required permit conditions/limitations. This includes, but is not limited to: waivers from testing requirements; variances from technology guidelines or water quality standards; WER/translator study consideration; variances from standard permit limits/conditions.

No variances were given during this permit reissuance.

SUITABLE DATA: In what, if any, effluent data were considered in the establishment of effluent limitations and provide all appropriate information/calculations.

All suitable effluent data were reviewed.

ANTIDEGRADATION REVIEW: Provide all appropriate information/calculations for the antidegradation review.

The receiving stream has been classified as tier 1; therefore, no further review is needed. Permit limits have been established by determining wasteload allocations which will result in attaining and/or maintaining all water quality criteria which apply to the receiving stream, including narrative criteria. These wasteload allocations will provide for the protection and maintenance of all existing uses.

ANTIBACKSLIDING REVIEW: Indicate if antibacksliding applies to this permit and, if so, provide all appropriate information.

There are no backsliding issues to address in this permit (i.e., limits as stringent or more stringent when compared to the previous permit).
SEE ATTACHMENT 6

20. **SPECIAL CONDITIONS RATIONALE**: Provide a rationale for each of the permit's special conditions.

SEE ATTACHMENT 7

21. **TOXICS MONITORING/TOXICS REDUCTION AND WET LIMIT SPECIAL CONDITIONS RATIONALE**: Provide the justification for any toxics monitoring program and/or toxics reduction program and WET limit.

SEE ATTACHMENT 8

22. **SLUDGE DISPOSAL PLAN**: Provide a description of the sludge disposal plan (e.g., type sludge, treatment provided and disposal method). Indicate if any of the plan elements are included within the permit.

Sludge from this facility is dewatered with centrifuges and then composted by McGill Inc. The primary back-up plan is to haul the sludge to the HRSD Boat Harbor for incineration.

23. **MATERIAL STORED**: List the type and quantity of wastes, fluids, or pollutants being stored at this facility. Briefly describe the storage facilities and list, if any, measures taken to prevent the stored material from reaching State waters.

The materials stored on site include sodium hypochlorite, sodium bisulfate, sodium hydroxide, ferric chloride, polymer, fuel oil, propane, ammonia, methanol,gasoline and diesel fuel. The materials are either stored in buildings with drains connected to the treatment system or are in contained areas. Fuel tanks are double walled.

24. **RECEIVING WATERS INFORMATION**: Refer to the State Water Control Board's Water Quality Standards [e.g., River Basin Section Tables (9 VAC 25-260-5 et seq.). **Use 9 VAC 25-260-140 C (introduction and numbered paragraph) to address tidal waters where fresh water standards would be applied or transitional waters where the most stringent of fresh or salt water standards would be applied.** Attach any memoranda or other information which helped to develop permit conditions (i.e. tier determinations, PReP complaints, special water quality studies, STORET data and other biological and/or chemical data, etc.

SEE ATTACHMENT 9

25 **305(b)/303(d) Listed Segments**: Indicate if the facility discharges to a segment that is listed on the current 303(d) list and, if so, provide all appropriate information/calculations.

This facility discharges to the Dominion Power Cooling Channel which directly discharges to the York River. This receiving stream segment has been listed in Category 5 of the 305(b)/303(d) list for non-attainment of Nitrogen, Phosphorus, TSS, and PCBs in Fish Tissue. EPA approved the Chesapeake Bay TMDL on 12/29/10. for this segment. It contains a wasteload allocation for this discharge of the above parameters. This permit did receive an individual annual WLA, which is presented as both Edge of Stream (EOS) and Delivered Load (DEL):

TN (lbs/yr): EOS 274,100; DEL 274,084.4

TP (lbs/yr): EOS 18,273; DEL 18,340.87

TSS (lbs/yr): EOS 1,370,502; DEL 1,260,000

This permit contains limits of 1703 kg/day monthly average TSS and 2555 kg/day weekly average TSS which means the DEL is less than the DEL in the TMDL therefore TSS is in compliance with the TMDL. The York River HRSD facility is covered under the Nutrient General Permit VAN030052 for the loads of TN and TP. Load limits are contained within the GP, not the individual permit. Per DEQ Central Office- The TMDL includes load limits for the HRSD facilities and the GP requires that they meet those load limits in aggregate. The individual WLAs under the aggregate registrations are listed on the registration list for informational purposes only. The York River plant doesn't have to meet their individual WLA. The 3 HRSD York River plants only have to meet their aggregate delivered WLA (which includes the 4th WLA from Mathews CH).

The Water Quality Management Plan covered under regulation 9 VAC25-720-120C provides the WLAs for which the Nutrient GP are based from.

This facility discharges stormwater directly to Back Creek. This receiving stream segment has been listed in Category 5 of the 303(d) list for non-attainment of

fecal coliform and enterococci. EPA approved the Poquoson River and Back Creek TMDL on 8/2/06 for this segment. The facility was not assigned an individual waste load allocation for fecal coliform and enterococci.

26. **CHANGES TO PERMIT**: Use **TABLE III(a)** to record any changes from the previous permit and the rationale for those changes. Use **TABLE III(b)** to record any changes made to the permit during the permit processing period and the rationale for those changes [i.e., use for comments from the applicant, VDH, EPA, other agencies and/or the public where comments resulted in changes to the permit limitations or any other changes associated with the special conditions or reporting requirements].

SEE ATTACHMENT 10

27. **NPDES INDUSTRIAL PERMIT RATING WORKSHEET:**

N/A - This is a municipal facility.

28. **DEQ PLANNING COMMENTS RECEIVED ON DRAFT PERMIT**: Document any comments received from DEQ planning.

The discharge is not addressed in any planning document but will be included when the plan is updated.

29. **PUBLIC PARTICIPATION:** Document comments/responses received during the public participation process. If comments/responses provided, especially if they result in changes to the permit, place in the attachment.

VDH/DSS COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the Virginia Dept. of Health and the Div. of Shellfish Sanitation and noted how resolved.

The VDH reviewed the application and waived their right to comment and/or object on the adequacy of the draft permit. Memo received 3/9/12.

The DSS has no comments on the application/draft permit. Email received 4/4/12.

EPA COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the U.S. Environmental Protection Agency and noted how resolved.

EPA has no objections to the adequacy of the draft permit. Email received 5/9/12.

ADJACENT STATE COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from an adjacent state and noted how resolved.

Not Applicable.

OTHER AGENCY COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from any other agencies (e.g., VIMS, VMRC, DGIF, etc.) and noted how resolved.

Not Applicable.

OTHER COMMENTS RECEIVED FROM RIPARIAN OWNERS/CITIZENS ON DRAFT PERMIT: Document any comments received from other sources and note how resolved.

The application and draft permit have received public notice in accordance with the VPDES Permit Regulation, and no comments were received.

DESCRIBE PN COMMENTS AND RESOLUTIONS. PROVIDE PUBLIC HEARING DATE AND REFERENCE BACKGROUND MEMORANDUM, IF APPROPRIATE.

PUBLIC NOTICE INFORMATION: Comment Period: Start Date 4/6/12
End Date 5/4/12

Persons may comment in writing or by e-mail to the DEQ on the proposed issuance/reissuance/modification of the permit within 30 days from the date of the first notice. Address all comments to the contact person listed below. Written or e-mail comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The Director of the DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing and a brief explanation of how the requestor's interests would be directly and adversely affected by the proposed permit action.

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting Deanna Austin at: Department of Environmental Quality (DEQ), Tidewater Regional Office, 5636 Southern Boulevard, Virginia Beach, VA 23462. Telephone: 757-518-2008 E-mail:deanna.austin@deq.virginia.gov

Following the comment period, the Board will make a determination regarding the proposed issuance/reissuance/modification. This determination will become effective, unless the Director grants a public hearing. Due notice of any public hearing will be given.

30. **ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:**

ATTACHMENT 1

SITE INSPECTION REPORT/MEMORANDUM

Facility:	HRSD- YORK RIVER
County/city:	YORK COUNTY

VPDES NO.	VA0081311

DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTEWATER FACILITY
INSPECTION REPORT
PART 1

Inspection date:	**May 3, 2011**	Date form completed:	**May 4, 2011**
Inspection by:	**Mark R. Kidd**	Inspection agency:	**DEQ/TRO**
Time spent:	**8 hours**	Announced Inspection:	[ ] Yes [✓] No
Reviewed by: **Kenneth T. Raum** KTR		Photographs taken at site?	[✓] Yes [ ] No
Present at inspection:	**Andy Nelson – Plant Manager**		

FACILITY TYPE:	FACILITY CLASS:
(✓) Municipal	(✓) Major
( ) Industrial	( ) Minor
( ) Federal	( ) Small
( ) VPA/NDC	( ) High Priority ( ) Low Priority

TYPE OF INSPECTION:					
Routine	✓	Reinspection		Compliance/assistance/complaint	
Date of previous inspection:	**8/19/2009**	Agency:	**DEQ/TRO**		

Population Served:		Connections Served					
Last Month Average: Influent **March 2011**	BOD_5 (mg/l)	**139**	TSS (mg/l)	**143**	Flow (MGD)	**12.55**	TKN (mg/l)	**34.8**
	Other:							
Last Month Average: Effluent **March 2011**	BOD_5 (mg/l)	**14**	TSS (mg/l)	**3.4**	Flow (MGD)	**12.42**	TKN (mg/l)	**1.54**
	Other: **TP (mg/l) -0.47**							
Last Quarter Average: Effluent **1st Quarter 2011**	BOD_5 (mg/l)	**10**	TSS (mg/l)	**3.4**	Flow (MGD)	**12.42**	TKN (mg/l)	
	Other: **TP (mg/l) – 0.59**							

Data verified in preface:	Updated?	✓	NO CHANGES?		
Has there been any new construction?			YES	✓	NO
If yes, were the plans and specifications approved?			YES	✓	NO
DEQ approval date:					

COPIES TO: (x) DEQ/TRO; (x) DEQ/OWCP; (x) OWNER; ( ) OPERATOR; ( ) EPA-Region III; ( ) Other:

PLANT OPERATION AND MAINTENANCE

1.	Class/number of licensed operators:	I	7	II	1	III	4	IV		Trainee				
2.	Hours per day plant manned?	24 hours/day												
3.	Describe adequacy of staffing	GOOD	✓	AVERAGE		POOR								
4.	Does the plant have an established program for training personnel	YES	✓	NO										
5.	Describe the adequacy of training	GOOD	✓	AVERAGE		POOR								
6.	Are preventative maintenance tasks scheduled	YES	✓	NO										
7.	Describe the adequacy of maintenance	GOOD	✓	AVERAGE		POOR								
	Does the plant experience any organic/hydraulic overloading?	YES		NO	✓									
8.	If yes, identify cause/impact on plant													
9.	Any bypassing since last inspection?	YES		NO	✓									
10.	Is the standby electrical generator operational?	YES	✓	NO		NA								
	How often is the standby generator exercised?	Monthly												
11.	Power transfer switch?	Automatic	ALARM SYSTEM?	Monthly										
12.	When was the cross connection last tested on the potable supply?	June 2010												
13.	Is the STP alarm system operational?	YES	✓	NO		NA								
14.	Is sludge disposed in accordance with an approved SMP	YES	✓	NO		NA								
	Is septage received by the facility?	YES	✓	NO										
15.	Is septage loading controlled?	YES	✓	NO		NA								
	Are records maintained?	YES	✓	NO		NA								

OVERALL APPEARANCE OF FACILITY	GOOD	✓	AVERAGE		POOR	

COMMENTS:	

PLANT RECORDS

	WHICH OF THE FOLLOWING RECORDS DOES THE PLANT MAINTAIN?							
	Operational logs for each process unit	YES	✓	NO		NA	
	Instrument maintenance and calibration	YES	✓	NO		NA	
	Mechanical equipment maintenance	YES	✓	NO		NA	
1.	Industrial waste contribution (municipal facilities)	YES	✓	NO		NA	

	WHAT DOES THE OPERATIONAL LOG CONTAIN					
	Visual Observations	✓	Flow Measurement	✓	Laboratory Results	✓
2.	Process Adjustments	✓	Control Calculations	✓	Other?	

COMMENTS:

	WHAT DO THE MECHANICAL EQUIPMENT RECORDS CONTAIN?					NA	
	MFG. Instructions	✓	As Built Plans/specs	✓	Spare Parts Inventory		✓
3.	Lube Schedules	✓	Other?		Equipment/parts Suppliers		✓

COMMENTS:

	WHAT DO INDUSTRIAL WASTE CONTRIBUTION RECORDS CONTAIN? (MUNICIPAL)			NA	
	Waste Characteristics	✓	Impact on Plant		✓
4.	Location and Discharge Types	✓	Other?		

COMMENTS:

	WHICH OF THE FOLLOWING RECORDS ARE AT THE PLANT & AVAILABLE TO PERSONNEL?					NA	
	Equipment Maintenance Records	✓	Industrial Contributor Records				
5.	Operational Log	✓	Sampling/testing Records	✓	Instrumentation Records		✓
6.	Records not normally available to personnel at their location:						

7.	Were the records reviewed during the inspection	YES	✓	NO	
8.	Are records adequate and the O&M manual current?	YES	✓	NO	
9.	Are the records maintained for the required 3-year time period	YES	✓	NO	

COMMENTS:

SAMPLING

1.	Are sampling locations capable of providing representative samples?					YES	✓	NO	
2.	Do sample types correspond to VPDES permit requirements?					YES	✓	NO	
3.	Do sampling frequencies correspond to VPDES permit requirements?					YES	✓	NO	
4.	Does plant maintain required records of sampling?					YES	✓	NO	
5.	Are composite samples collected in proportion to flow?	YES	✓	NO		NA			
6.	Are composite samples refrigerated during collection?	YES	✓	NO		NA			
7.	Does the plant run operational control tests?	YES	✓	NO		NA			

COMMENTS:

TESTING

	Who performs the testing?	Plant	✓	Central Lab	✓	Commercial Lab	
1.	Name:						

IF THE PLANT PERFORMS ANY TESTING, PLEASE COMPLETE QUESTIONS 2-4

2.	Which total residual chlorine method is used?	**Hach Pocket Colorimeter**					
3.	Does plant appear to have sufficient equipment to perform required tests?				YES	✓	NO
4.	Does testing equipment appear to be clean and/or operable?				YES	✓	NO

COMMENTS:

FOR INDUSTRIAL FACILITIES WITH TECHNOLOGY BASED LIMITS ONLY

1.	Is the production process as described in permit application? If no, describe changes in comments section.	YES		NO		NA	✓		
2.	Are products/production rates as described in the permit application? If no list differences in comments section.	YES		NO		NA	✓		
3.	Has the Agency been notified of the changes and their impact on plant effluent? Date agency notified:	YES		NO		NA	✓		

COMMENTS:

	PROBLEMS IDENTIFIED AT LAST INSPECTION:	CORRECTED	NOT CORRECTED
	None identified		

SUMMARY

	INSPECTION COMMENTS:
	I arrived on site and met with Plant Manager Andy Nelson. The facility continues to undergo upgrades and additions to the plant. A de-nitrification facility is now in operation. No problems or deficiencies were noted during the inspection.

	COMPLIANCE RECOMMENDATIONS FOR ACTION
	None.

DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTEWATER FACILITY
INSPECTION REPORT
PART II

Unit Process Evaluation Summary Sheet*

UNIT PROCESS	APPLICABLE	COMMENTS
FLOW MEASUREMENT	✓	
SCREENING/COMMINUTION	✓	
GRIT REMOVAL	✓	
DENITRIFICATION FILTER	✓	
PRIMARY SEDIMENTATION	✓	
ACTIVATED SLUDGE AERATION	✓	
SECONDARY SEDIMENTATION	✓	
FILTRATION	✓	
CHLORINATION	✓	
DECHLORINATION	✓	
EFFLUENT/PLANT OUTFALL	✓	
SEQUENCING BATCH REACTOR	✓	
SLUDGE PUMPING	✓	
FLOTATION THICKENING (DAF)	✓	
GRAVITY THICKENING	✓	
ANAEROBIC DIGESTION	✓	
CENTRIFUGATION	✓	

STANDARD COMMENTS:

1. UNIT NEEDS ATTENTION
2. ABNORMAL INFLUENT/EFFLUENT
3. EVIDENCE OF EQUIPMENT FAILURE
4. UNAPPROVED MODIFICATION OR TEMPORARY REPAIR
5. EVIDENCE OF PROCESS UPSET

***REFER TO INDIVIDUAL UNIT PROCESS EVALUATION FORMS**

UNIT PROCESS:	SCREENINGS/COMMINUTION

			YES	NO	NA
1.	Number of manual units	2			
2.	Number of mechanical units	2			
3.	Number manual units in operation	0			
4.	Number of mechanical units in operation	2			
	Bypass channel provided		✓		
5.	Bypass channel in use			✓	
6.	Area adequately ventilated		✓		
7.	Alarm system for equipment failure and/or overloads		✓		
8.	Proper flow distribution between units		✓		
9.	How often are units checked and cleaned	1x per 2 hours			
10.	Cycle of operation	continuous			
11.	Volume of screenings removed	55 ft^3/day			

GENERAL CONDITION:	GOOD	✓	FAIR		POOR	

COMMENTS:	**#11. March 2011 average. Photo 1.**

UNIT PROCESS:	GRIT REMOVAL

							YES	NO	NA
1.	Number of units			3					
2.	Number units in operation			2					
	Operation of grit collection equipment:								
3.		Manual		Time Clock	✓	Continuous Duty			
4.	Area adequately ventilated						✓		
5.	Proper flow distribution between units						✓		
6.	Daily volume of grit removed			23 ft^3/day					
7.	All equipment operable						✓		

GENERAL CONDITION:	GOOD	✓	FAIR		POOR	

COMMENTS:	**#6. March 2011 average. 13. 3 GPH NAOH added.**

UNIT PROCESS:	SEDIMENTATION

	PRIMARY	✓	SECONDARY		TERTIARY		YES	NO	NA
1.	Number of units				3				
2.	Number units in operation				2				
3.	Proper flow distribution between units						✓		
4.	Sludge collection system working properly?						✓		
5.	Signs of short circuiting and/or overloads							✓	
6.	Effluent weirs level						✓		
7.	Effluent weirs clean						✓		
8.	Scum collection system working properly						✓		
9.	Influent/effluent baffle system working properly						✓		
10.	Chemical Used		**Ferrous Chloride for phosphorus removal**		Chemical Addition		✓		
11.	Effluent characteristics				**Medium gray**				
GENERAL CONDITION:	GOOD	✓	FAIR		POOR				

COMMENTS:	**Photo 2.**

UNIT PROCESS:	SEDIMENTATION

	PRIMARY		SECONDARY	✓	TERTIARY		YES	NO	NA
1.	Number of units				3				
2.	Number units in operation				3				
3.	Proper flow distribution between units						✓		
4.	Sludge collection system working properly?						✓		
5.	Signs of short circuiting and/or overloads						✓		
6.	Effluent weirs level							✓	
7.	Effluent weirs clean						✓		
8.	Scum collection system working properly						✓		
9.	Influent/effluent baffle system working properly						✓		
10.	Chemical Used		**Polymer and Ferrous Chloride**		Chemical Addition		✓		
11.	Effluent characteristics				**Clear**				
GENERAL CONDITION:	GOOD	✓	FAIR		POOR				

COMMENTS:	**Average FeCl3 dosage - 2.3 mg/l for March 2011. Photos 5&6.**

UNIT PROCESS:	ACTIVATED SLUDGE

			YES	NO	NA
1.	Number of aeration units	6			
2.	Number units in operation	6			
3.	Mode of operation:	Step Flow			
4.	Proper flow distribution between units		✓		
5.	Foam control operational		✓		
6.	Scum control present		✓		
7.	Dead spots			✓	
8.	Excessive foam			✓	
9.	Poor aeration			✓	
10.	Excessive scum			✓	
11.	Aeration equipment malfunction			✓	
12.	Other problem(s):			✓	
13.	Effluent control devices working properly (OXIDATION DITCHES)				✓

14. *MIXED LIQUOR CHARACTERISTICS AS AVAILABLE :* **March 2011 average**

pH (s.u.)	**6.3 – 6.7**	MLSS (mg/l)	**3131**	DO (mg/l)		SVI	**73**
Odor	**earthy**	MCRT		**10 days**		SDI	
Color	**brown**						

15. *RETURN/WASTE SLUDGE RATES:*

Return Rate	**6.44 MGD**	Waste Rate		Waste Frequency	**daily**

16. *AERATION SYSTEM CONTROL:*

Time Clock		Manual Feed		Continuous Feed	✓

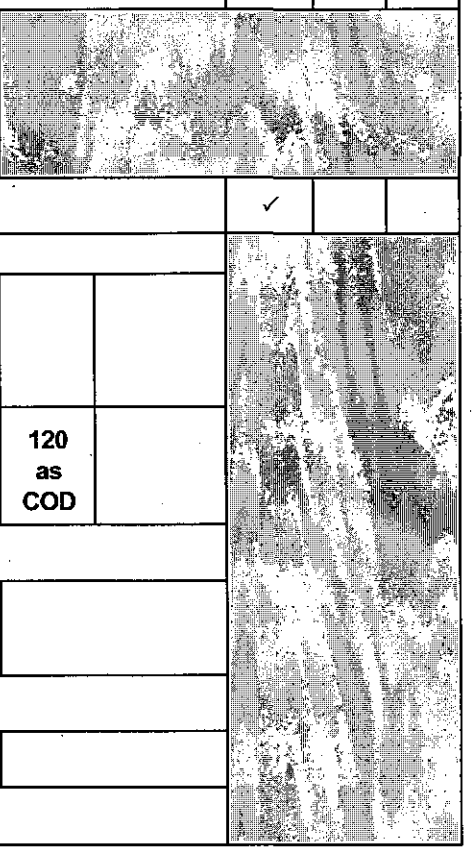
Other:

GENERAL CONDITION:	GOOD	✓	FAIR		POOR	

COMMENTS:	**Photo 4.**

UNIT PROCESS:	**DENITRIFICATION FILTER**

			YES	NO	NA
1.	Number of units	**9**			
2.	Number units in operation	**9**			
3.	*Mode of operation:*	**Continuous**			
4.	Proper flow distribution between units		✓		
5.	*FILTER INFLUENT*				
	Flow (MGD) **10.62**	NO3-N (mg/l) **20.22**	Chemicals Used? **Methanol** ✓		
			Chemical Dosage (mg/l) **120 as COD**		
6.	*FILTER EFFLUENT*				
	NO3-N (mg/l) **0.0- 0.87**				
	Other:				



GENERAL CONDITION:	GOOD	✓	FAIR		POOR	

COMMENTS:	**Photo 8.**

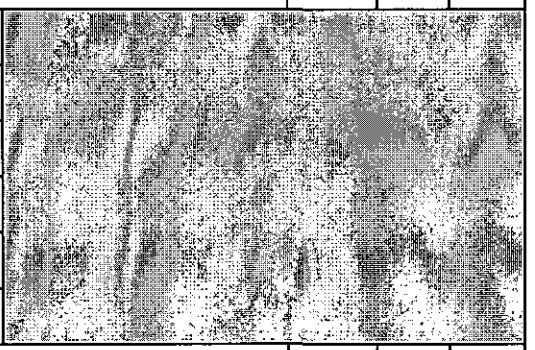
UNIT PROCESS:	FLOW MEASUREMENT

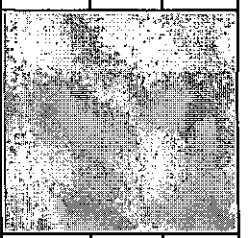
	INFLUENT	✓	INTERMEDIATE		EFFLUENT		YES	NO	NA
1.	Type of measuring device			Rosemont ULTRASONIC					
2.	Present reading? **May 3, 2011**			12.22 MGD					
3.	Bypass channel							✓	
4.	Bypass channel metered?								✓
	Return flow discharged upstream of the meter?								✓
5.	Identify:								✓
6.	Device operating properly?						✓		
7.	Date of last calibration?			February 15, 2011					
	EVIDENCE OF THE FOLLOWING PROBLEMS								
	Obstruction?							✓	
8.	Grease?							✓	

GENERAL CONDITION:	GOOD	✓	FAIR		POOR	

UNIT PROCESS:	CHLORINATION

			YES	NO	NA
1.	Number of Hypo pumps?	6			
2.	Number of Hypo pumps in operation?	1-2			
3.	Number of evaporators?	0			
4.	Number of evaporators in operation	0			
5.	Number chlorine contact tanks	2			
6.	Number chlorine contact tanks in operation	1			
7.	Proper flow distribution between units?				✓
	HOW IS CHLORINE INTRODUCED INTO THE WASTE STREAM?				
8.	Perforated Diffuser ✓ / Injector w/single entry point / Tablet Feeder				
9.	Chlorine residual in contact basin effluent (mg/l) **March 2011**	**0.94 mg/l**			
10.	Applied chlorine dosage (lbs/day) **March 2011**	**735 lbs/day**			
11.	Contact basin adequately baffled?		✓		
12.	Adequate ventilation in chlorine cylinder storage area?				✓
14.	Adequate ventilation in chlorine equipment room?				✓
15.	Proper safety precautions used?		✓		





GENERAL CONDITION:	GOOD	✓	FAIR		POOR	

COMMENTS:	Photo 7.

UNIT PROCESS:	DECHLORINATION

								YES	NO	NA
1.	Dechlorination chemical used?									
	Sulfur Dioxide		**Sodium Bisulfite**	✓	Other:					
2.	Number of bisulfite feed pumps?				**5**					
3.	Number sulfonators in operation				**1**					
4.	Number of evaporators?				**0**					
5.	Number of evaporators in operation				**0**					
5.	Number contact tanks				**2**					
6.	Number contact tanks in operation				**1**					
7.	Proper flow distribution between units?									✓
	HOW IS CHEMICAL INTRODUCED INTO THE WASTE STREAM?									
8.	Perforated Diffuser	✓	Injector w/single entry point		Tablet Feeder					
9.	Chlorine residual in basin effluent: **March 2011 average**				**0.07 mg/l**					
10.	Applied dechlorination dosage: **March 2011 average**				**194 lbs/day**					
11.	Control system operational?							✓		
12.	Control system adjusted?	Automatic	✓	Manual		Other:				
13.	Residual analyzer?								✓	
14.	Contact basin adequately baffled?							✓		
15.	Adequate ventilation in cylinder storage area?									✓
16.	Adequate ventilation in equipment room?									✓
17.	Proper safety precautions used?							✓		

GENERAL CONDITION:	GOOD	✓	FAIR		POOR	

UNIT PROCESS:	EFFLUENT/PLANT OUTFALL

									YES	NO	NA
1.	Type of outfall		Shore Based	✓	Submerged						
	TYPE IF SHORE BASED:										
2.	Wingwall		Headwall		Rip Rap		Pipe	✓			
3.	Flapper valve present?										✓
4.	Erosion of bank area?										✓
5.	Effluent plume visible?										✓
	Condition of outfall and the supporting structure? (See comments.)										
6.	GOOD		FAIR		POOR						
	FINAL EFFLUENT, EVIDENCE OF FOLLOWING PROBLEMS?										
	Oil sheen?									✓	
	Grease?									✓	
	Sludge bar?										✓
	Turbid effluent?									✓	
	Visible foam?									✓	
7.	Unusual color?									✓	

GENERAL CONDITION:	GOOD	✓	FAIR		POOR	

COMMENTS:	**6 & 7. The effluent discharges into the canal at the Yorktown Power Station. Effluent was observed at the dechlorination unit.**

UNIT PROCESS:	SEQUENCING BATCH REACTORS

			YES	NO	NA
1.	Number of aeration units	1			
2.	Number units in operation	0			
3.	Mode of operation:	BOD removal [ ] or Ammonia (including BOD) removal []			
4.	Method of cycle control Microprocessor [] Manual [ ] Floats + timers [ ]				
5.	Type of aeration Diffusers] Floating mechanical [ ] Jet aeration [ ]				
6.	Type of withdrawal mechanism a. Fixed pipe [ ] Automatic [ ] or Manual [ ] b. Floating weir [ ] Automatic [ ] or Manual [ ]				
7.	Waste by Gravity [ ] Pump [ ] Both [ ]				
8.	Excessive foam				✓
9.	Poor aeration				✓
10.	Excessive scum				✓
11.	Batch Discharge Volume				
12.	Batch frequency				
13.	Other problem(s)				✓

14. *MIXED LIQUOR CHARACTERISTICS AS AVAILABLE:*

pH (s.u.)		MLSS (mg/l)		DO (mg/l)		SVI	
Odor		Settleability (ml/l)				SDI	
Color							

15. *RETURN/WASTE SLUDGE RATES:*

Return Rate		Waste Rate		Waste Frequency	

16. *AERATION SYSTEM CONTROL:*

Time Clock		Manual Feed		Continuous Feed	

Other:

GENERAL CONDITION:	GOOD		FAIR		POOR	

COMMENTS:	**The SBR is being modified to provide nitrification to centrate water since the refinery is no longer in**

	operation. Photo 3.

UNIT PROCESS:	FILTRATION

									YES	NO	NA
1.	Type of filters	Gravity	✓	Pressure		Intermittent					
2.	Number of units	1									
3.	Number units in operation	0									
	Operation of system	Other: (specify)									
4.	Automatic	✓	Semi-automatic			Manual					
5.	Proper flow distribution between units										✓
	EVIDENCE OF THE FOLLOWING PROBLEMS?										
	Uneven flow distribution?										✓
	Filter clogging?										✓
	Nozzle clogging?										✓
	Icing?										✓
	Filter flies?										✓
6.	Vegetation on filter?										✓
	Filter aid system provided?										✓
	Properly operating?										✓
7.	Chemical used:										✓
8.	Automatic valves operating properly?										✓
9.	Backwash system operating properly?										✓
10.	Filter building adequately ventilated?										✓
11.	Effluent characteristics?										✓

GENERAL CONDITION:	GOOD	✓	FAIR		POOR	

COMMENTS:	**No longer in operation since closure of the refinery.**

UNIT PROCESS:	FLOTATION THICKENING (DAF)

									YES	NO	NA
1.	Number of units				2						
2.	Number units in operation				1						
	SLUDGE PUMPING?										
3.	Manual		Automatic	✓	Other:						
	FLOATATION AID SYSTEM PROVIDED?										
4.	Type of aid	**SE-1084**	Dosage		**36 lbs/day**						
5.	Skimmer blade sludge removal system properly operating?								✓		
6.	Sludge collection system working properly?								✓		
	Is the unit used to thicken sludge other than waste activated sludge?									✓	
7.	Other sludge type										✓
8.	Signs of overloading?									✓	
	PROCESS CONTROL TESTING										
	Feed solids testing									✓	
	Thickened sludge solids testing				**4.20 %**						
	Underflow testing									✓	
9.	Other:										
10.	Percent capture of solids				**>73%**						
11.	Effluent baffle system working properly?								✓		

GENERAL CONDITION:	GOOD	✓	FAIR		POOR	

COMMENTS:	**Photo 9.**

UNIT PROCESS:	GRAVITY THICKENER

									YES	NO	NA
1.	Number of units					2					
2.	Number units in operation					1					
3.	Type of sludge treated:						Combination				
	Primary	✓	Waste Activated				Other:				
4.	Sludge fed how?		Continuous	✓	Intermittent						
5.	Solids concentration in the influent sludge					na					
	Solids concentration in the thickened sludge					4.23 % TS					
6.	Signs of short-circuiting and/or overloading?									✓	
7.	Effluent weirs level?										✓
8.	Sludge collection system working properly?										✓
9.	Influent/effluent baffle systems working properly?										✓
10.	Chemical addition?										✓
	Chemical used?	NaOCl A-3320P		Dosage? lbs/day	244 27						

GENERAL CONDITION:	GOOD	✓	FAIR		POOR	

COMMENTS:	

UNIT PROCESS:	CENTRIFUGATION

								YES	NO	NA
1.	Number of units				2					
2.	Number units in operation				1					
3.	*PURPOSE OF CENTRIFUGE*									
	Thickening		Dewatering	✓	Other:					
4.	*OPERATION OF EQUIPMENT*									
	Manual	✓	Automatic		Other:					
5.	Centrifuge run time **March 2011**			**11.8 hrs/day for 23 days**						
6.	Volume of influent sludge flow: (gal/min)				**126**					
7.	Amount of cake produced: (lbs/day)									
8.	*SLUDGE SOLIDS*									
	Influent (%)	**2.63**	Effluent (%)	**25.1**						
9.	Conditioning chemical fed:			**SE-1084**						
10.	Conditioning chemical dose:			**424 lbs/day**						
11.	Centrate return location:			**SBR**						
12.	Signs of centrate return problems?								✓	

GENERAL CONDITION:	GOOD	?	FAIR	?	POOR	

COMMENTS:	**All data presented based on March 2011 process control information.**

UNIT PROCESS:	ANAEROBIC DIGESTION

									YES	NO	NA
1.	Number of units				2						
2.	Number units in operation				1						
	TYPE OF SLUDGE TREATED:										
3.	Primary	✓	Waste Activated	✓	Other:						
	TYPE OF DIGESTER:										
4.	Primary:		Standard Rate		High Rate		Secondary	✓			
5.	Frequency of sludge application to digester(s):				**continuous**						
6.	pH Adjustment provided?									✓	
7.	pH adjustment utilized?										✓
8.	Number of recirculation pumps										
9.	Number recirculation pumps in operation										
	LOCATION OF SUPERNATANT RETURN: ***na***										
10.	Head		Primary		Other:						
11.	Supernatant return rate:										
	PROCESS CONTROL TESTING:										
12.	pH (s.u.)	**Primary: 7.0-7.1**									
	Volatile Acids (mg/l)	**Primary: 75**									
	Alkalinity (mg/l)	**Primary: 3420**									
	Volatile Solids Reduction (%)	**Primary: 2.63**									
	Temperature (°F)	**Primary: 100**									
13.	Sludge retention time?	**Primary: 14**									
14.	Gas production rate?	**151 cu.ft. /day**									
15.	Signs of overloading?									✓	

Continued

GENERAL CONDITION:	GOOD	✓	FAIR		POOR	

COMMENTS:	**#2. Digester #2's roof being replaced. Data based on March 2011 reports. Photo 10.**

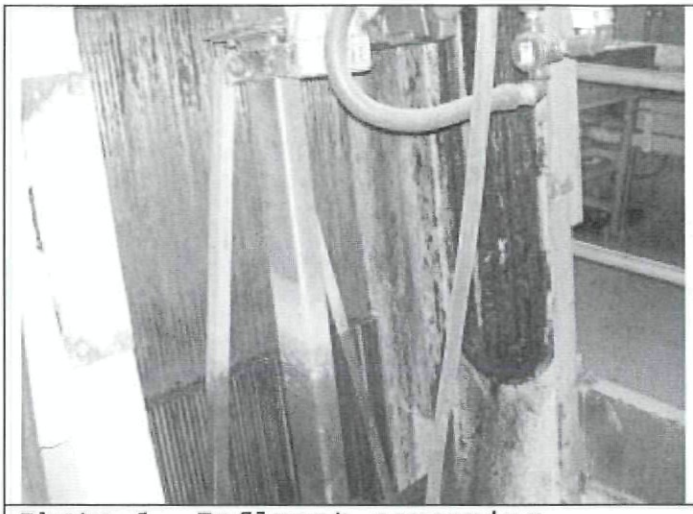


Photo 1. Influent screening.

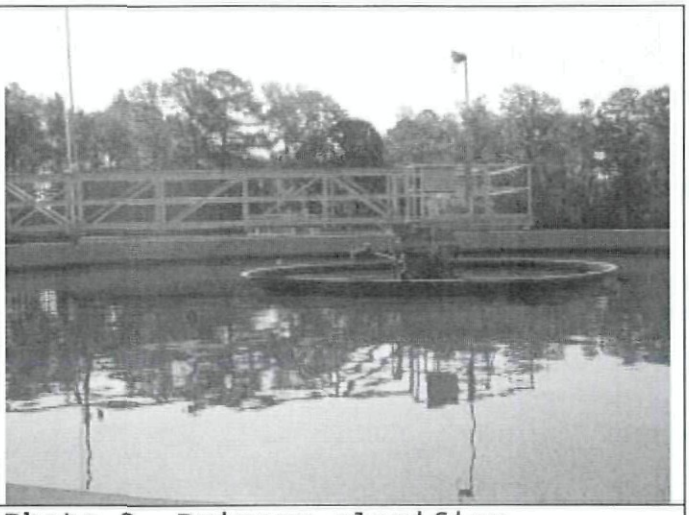


Photo 2. Primary clarifier.

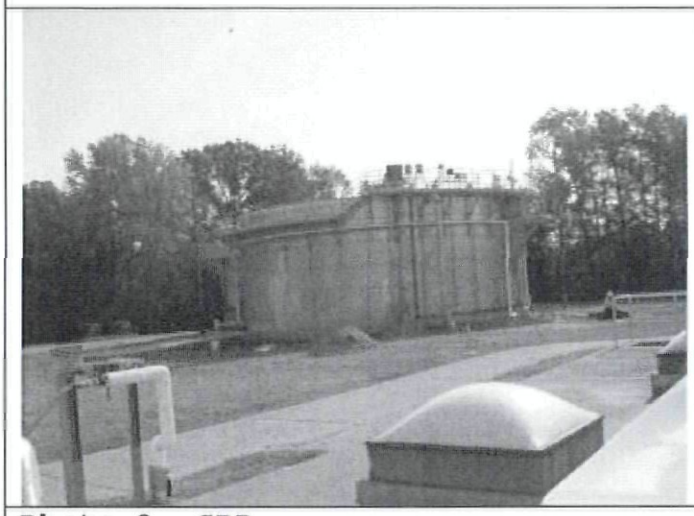


Photo 3. SBR.

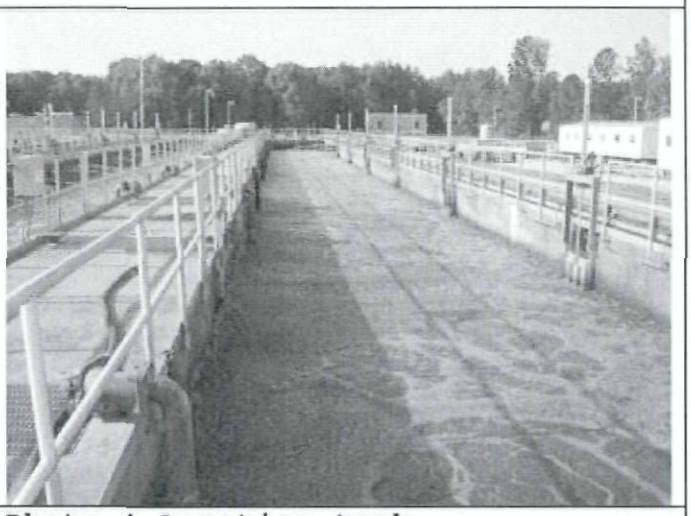


Photo 4.Aeration tank.

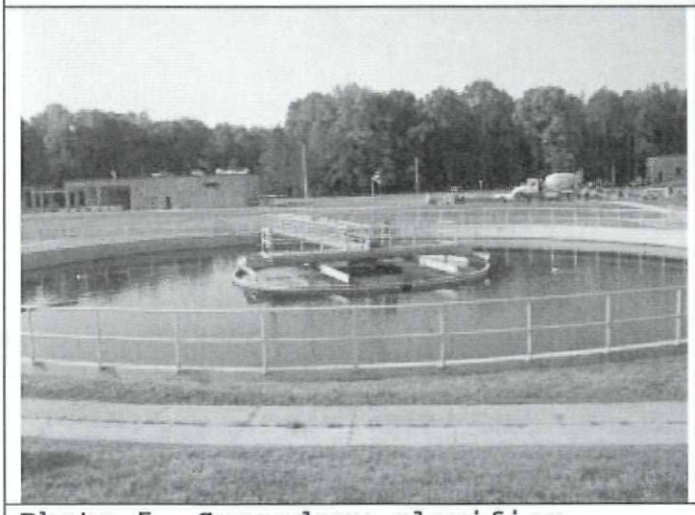


Photo 5. Secondary clarifier.

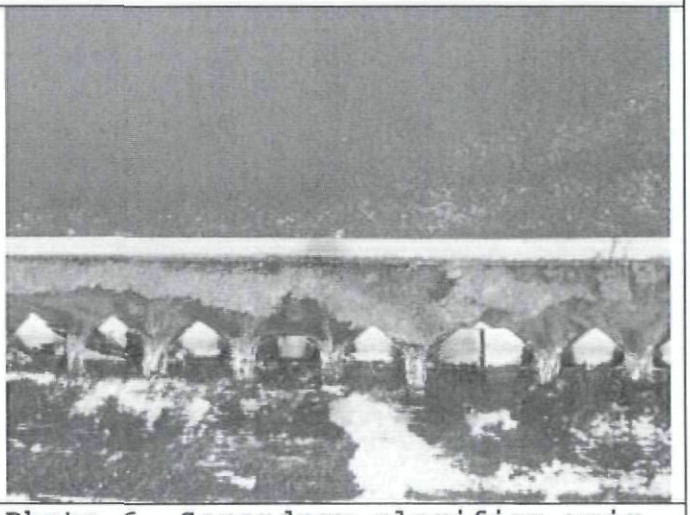


Photo 6. Secondary clarifier weir.

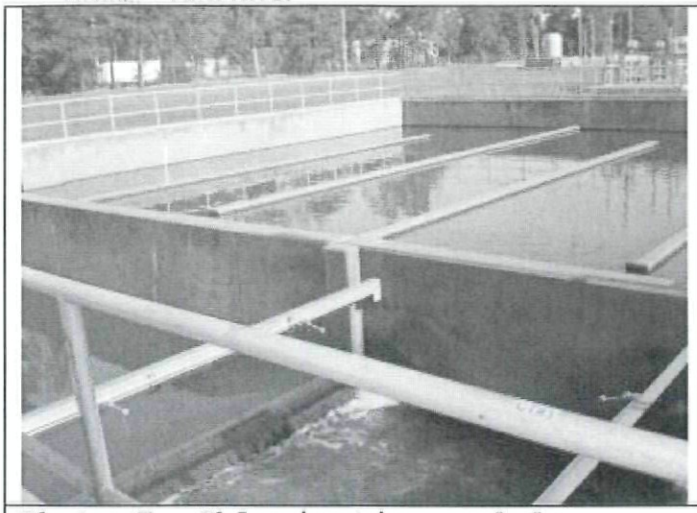


Photo 7. Chlorination and de-chlorination tanks.

Photo 8. De-nitrification unit.

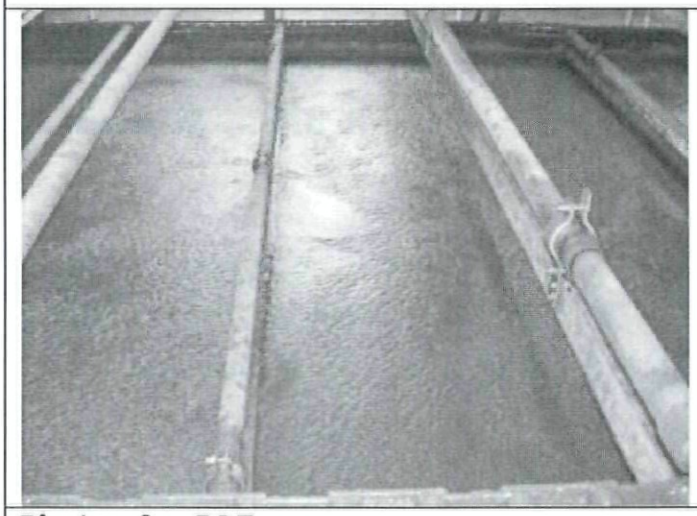
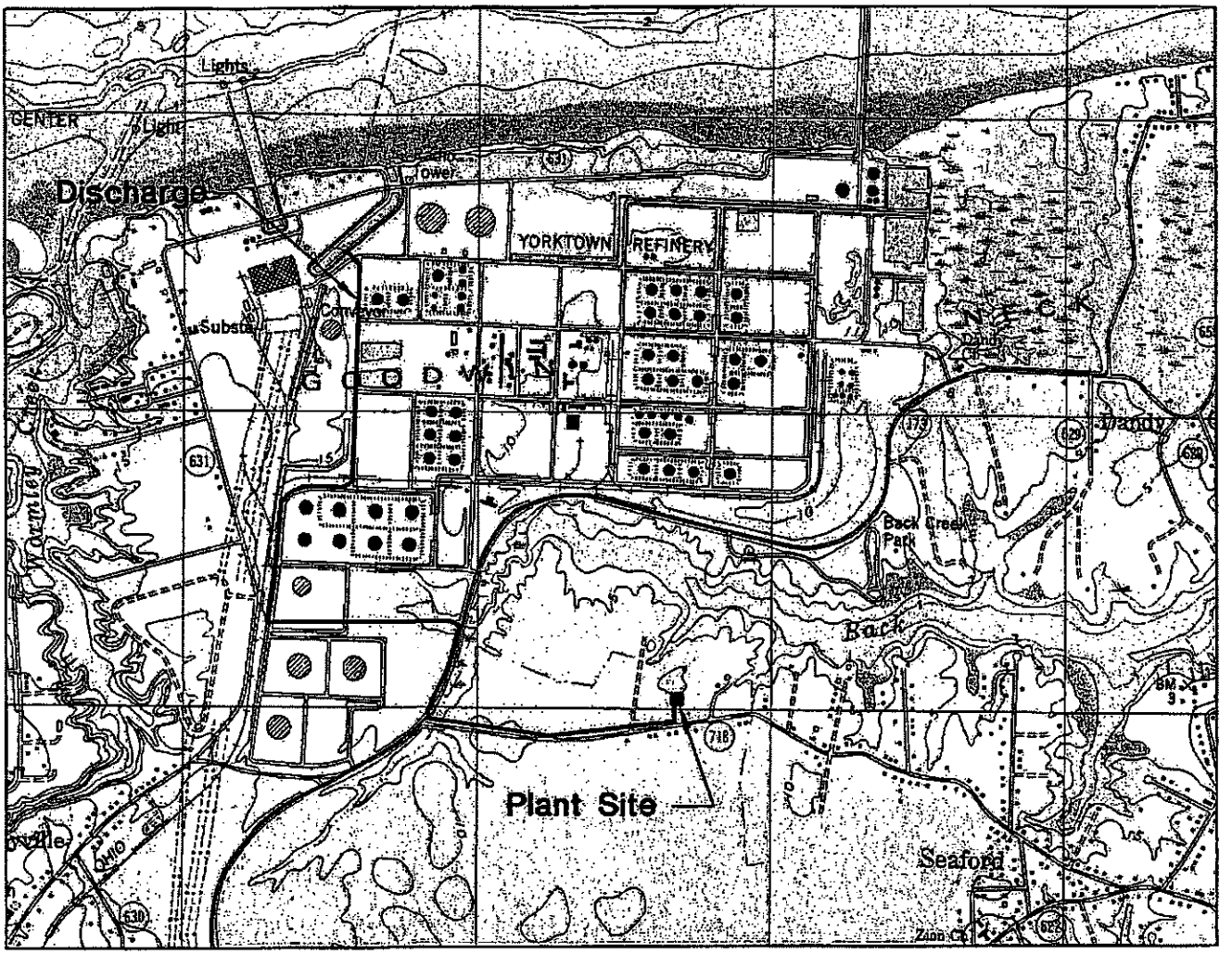


Photo 9. DAF.

Photo 10. Digester.

ATTACHMENT 2

DISCHARGE LOCATION/TOPOGRAPHIC MAP



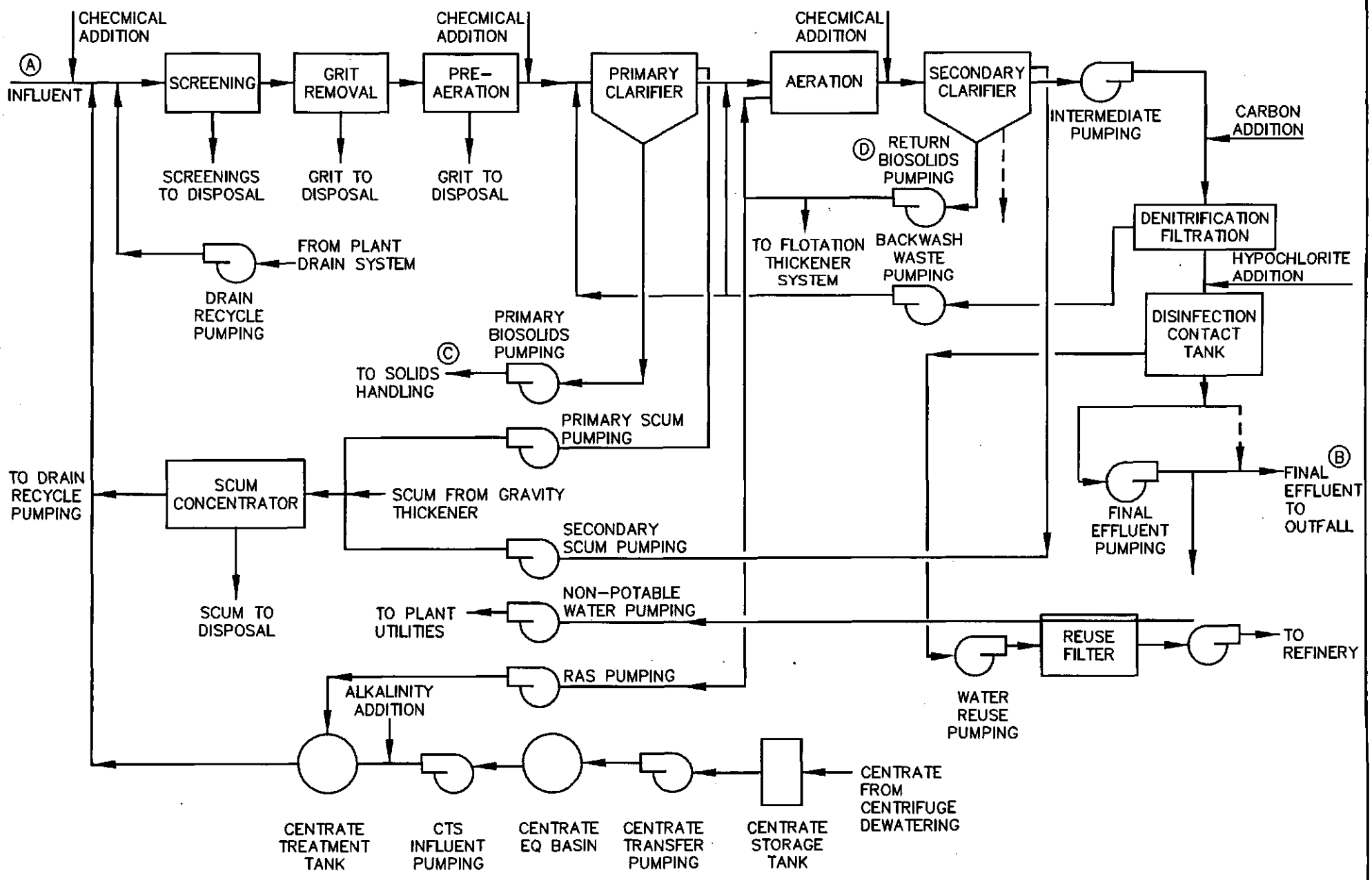
Location Map
for
York River TP

June 2003 | Scale: 1"=2000' | USGS Map Reference

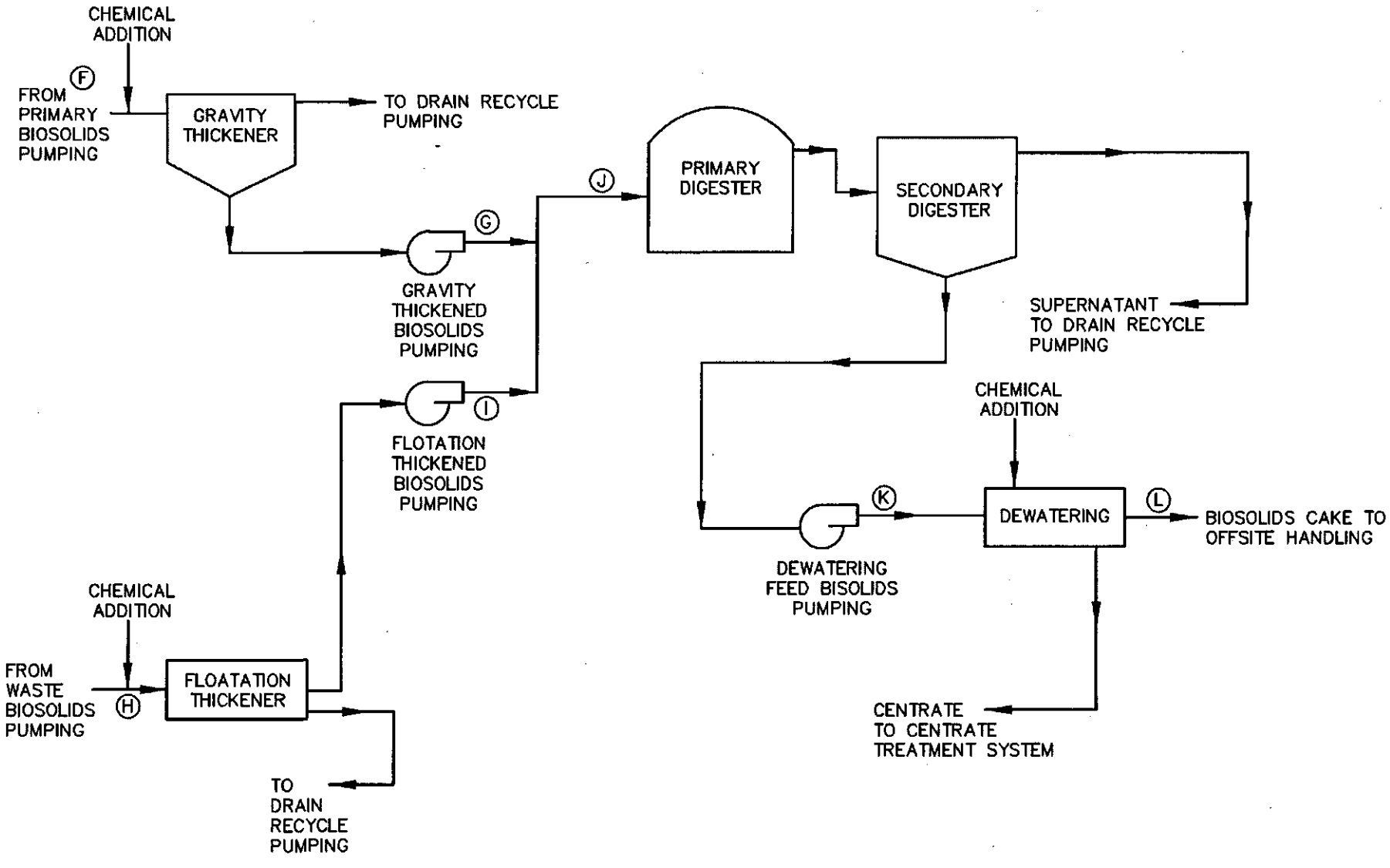
ATTACHMENT 3

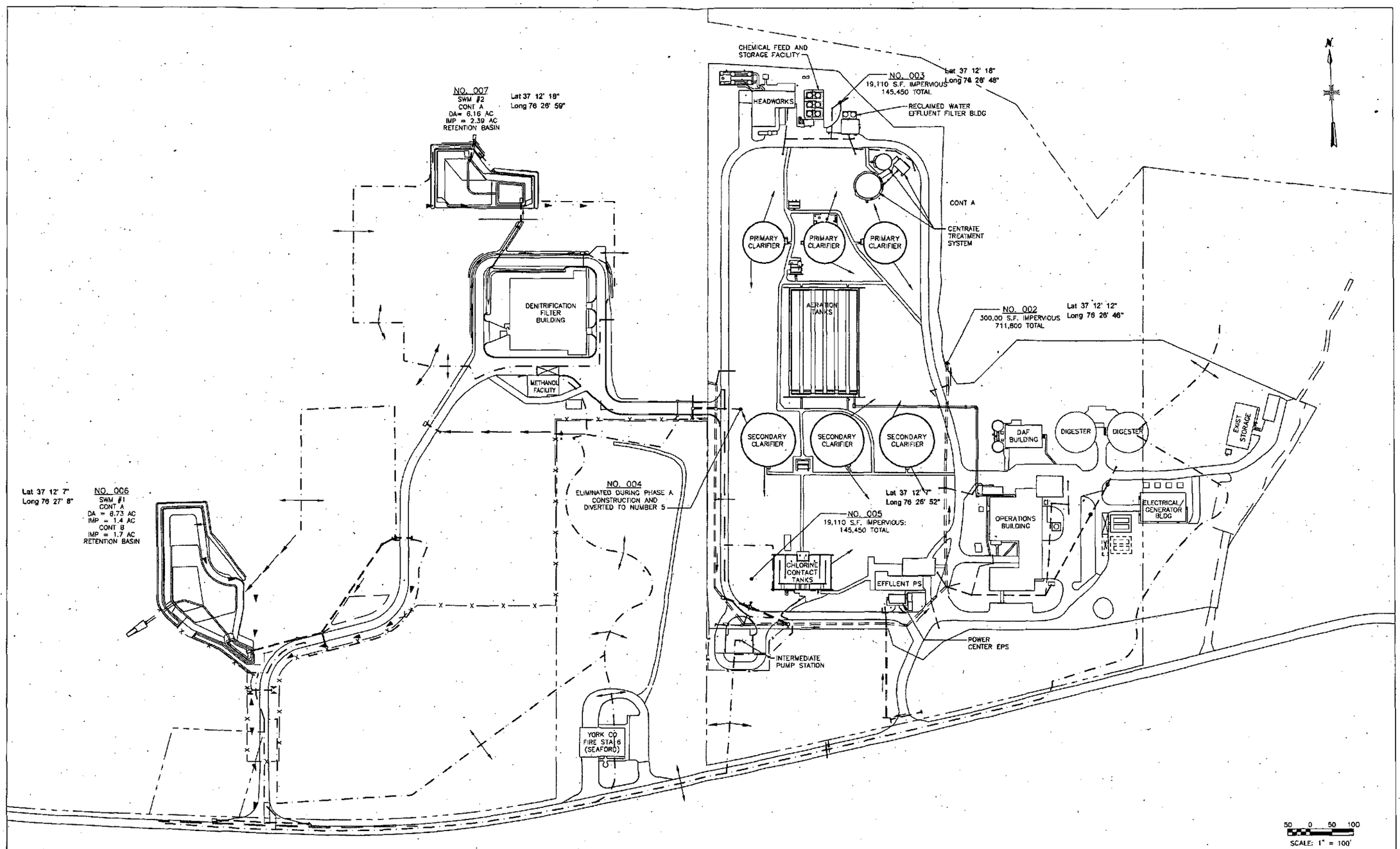
SCHEMATIC/PLANS & SPECS/SITE MAP/ WATER BALANCE

YORK RIVER TREATMENT PLANT
SEWAGE TREATMENT FLOW DIAGRAM
HAMPTON ROADS SANITATION DISTRICT



YORK RIVER TREATMENT PLANT
SOLIDS HANDLING FLOW DIAGRAM
HAMPTON ROADS SANITATION DISTRICT





HRSD

YR SITE DRAINAGE MAP

DATE: JAN. 2012

ATTACHMENT 4

TABLE I - DISCHARGE/OUTFALL DESCRIPTION

TABLE I

NUMBER AND DESCRIPTION OF OUTFALLS

OUTFALL NO.	DISCHARGE LOCATION	DISCHARGE SOURCE (1)	TREATMENT (2)	FLOW (3)
001	371255N/0762731W	Publicly Owned Treatment works	Secondary treatment including bar screen, grit removal, primary clarification, secondary clarification, activated sludge, chlorination and dechlorination.	15 MGD
002	371212N/0762646W	Stormwater	Good housekeeping and management, containment of stored materials	0.039 MG
003	371218N/0762648W	Stormwater	Good housekeeping and management, containment of stored materials	0.007 MG
005	371207N/0762652W	Stormwater	Good housekeeping and management, containment of stored materials	0.007 MG
006	371207N/0762708W	Stormwater	Good housekeeping and management, containment of stored materials	0.018 MG
007	371218N/0762659W	Stormwater	Good housekeeping and management, containment of stored materials	0.014 MG

(1) List operations contributing to flow
(2) Give brief description, unit by unit
(3) Give maximum 30-day average flow for industry and design flow for municipal

SEE ATTACHED SHEET FOR CALCULATIONS

York River STP Stormwater Outfall Flow Calculations

Annual average rainfall for the Portsmouth Weather Station 1976-2006 48.86" Over a year period it is an average of 0.134" day....Converted to feet
0.011 feet of rainfall

Runoff Coefficients of **0.5** for pervious surfaces and **0.9** for impervious surfaces were obtained from "Design and Construction of Sanitary and Storm Sewers"

Outfall 002 300,000 sq ft impervious surface x 0.9 = 270,000
411,600 sq ft pervious surface X 0.5 = 205,800
Total Area = 475,800
Total Runoff Volume 0.011 ft rain X 475,800 = 5233.8 cu ft x 7.48e-6 = **0.039 MGD**

Outfall 003 19,110 sq ft impervious surface x 0.9 = 17,199
126,340 sq ft pervious surface X 0.5 =63,170
Total Area = 80,369
Total Runoff Volume 0.011 ft rain X 80,369 = 884.06 cu ft x 7.48e-6 = **0.007 MGD**

Outfall 005 19,110 sq ft impervious surface x 0.9 = 17,199
126,340 sq ft pervious surface X 0.5 =63,170
Total Area = 80,369
Total Runoff Volume 0.011 ft rain X 80,369 = 884.06 cu ft x 7.48e-6 = **0.007 MGD**

Outfall 006 60984 sq ft impervious surface x 0.9 = 54,886
319,295 sq ft pervious surface X 0.5 = 159,647
Total Area = 214,534
Total Runoff Volume 0.011 ft rain X 214,534 = 2360 cu ft x 7.48e-6 = **0.018 MGD**

Outfall 007 104,108 sq ft impervious surface x 0.9 = 93,697
164,222 sq ft pervious surface X 0.5 = 82,111
Total Area = 175,808
Total Runoff Volume 0.011 ft rain X 175,808 = 1934 cu ft x 7.48e-6 = **0.014 MGD**

Total for all 5 outfalls = 0.085 MGD

ATTACHMENT 5

TABLE II - EFFLUENT MONITORING/LIMITATIONS

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 001 DESIGN FLOW: 15 MGD
Outfall Description: Municipal Discharge
SIC CODE: 4952
(X) Final Limits ( ) Interim Limits Effective Dates - From: Reissuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	DESIGN FLOW MULTIPLIER	EFFLUENT LIMITATIONS				MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD) [a]	3		NL	NA	NA	NL	Cont.	TI & RE*
PH (S.U.)	1		NA	NA	6.0	9.0	1/Day	Grab
BOD5 (mg/l) [c] [d]	1		30	45	NA	NA	3/Week	24 HC
BOD5 (kg/d) [d]	1	15	1703	2555	NA	NA	3/Week	24 HC
TSS (mg/l) [c] [d]	1		30	45	NA	NA	3/Week	24 HC
TSS (kg/d) [d]	1	15	1703	2555	NA	NA	3/Week	24 HC
TRC (mg/l) [b] [c]	2		0.20	1.3	NA	NA	1/Day	Grab
Total Phosphorus (mg/l) [f]	3		NL	NA	NA	NA	1/Month	24 HC
Total Phosphorus (mg/l) Year to date [f]	3		NL	NA	NA	NA	1/Month	Calc
Total Phosphorus (mg/l) Calendar Year [e] [f]	3		0.70	NA	NA	NA	1/Year	Calc
Total Nitrogen (mg/l) [f]	3		NL	NA	NA	NA	1/Month	24 HC
Total Nitrogen (mg/l) Year to date [f]	3		NL	NA	NA	NA	1/Month	Calc
Total Nitrogen(mg/l) Calendar Year [e] [f]	3		8.0	NA	NA	NA	1/Year	Calc

PARAMETER & UNITS	BASIS FOR LIMITS	DESIGN FLOW MULTIPLIER	EFFLUENT LIMITATIONS				MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Fecal Coliform (n/cml) [d] [g]	2		200	NA	NA	NA	1/Week (Between 10 am & 4 pm)	Grab
Enterococci (n/cml) [h]	2		35	NA	NA	NA	2/Month (Between 10 am & 4 pm)	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1 Year= January 1-December 31; reported for each full calendar year

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

In addition to any Total Nitrogen or Total Phosphorus concentration limits listed above, this facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN030052, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia.

[a] The design flow of this treatment facility is 15 MGD. See Part I.C.5 for additional flow requirements.
[b] See Part I.B. for additional chlorine monitoring instructions.
[c] See Parts I.C.6 and I.C.7 for quantification levels and reporting requirements, respectively.
[d] See Part I.C.8 for additional instructions regarding effluent monitoring frequencies.
[e] Annual average limitation, based on a calculation of all samples collected during the calendar year.
[f] See Part I.C.10.for additional instructions regarding Total Phosphorus and Total Nitrogen
[g] Fecal Coliform monthly average is calculated as a geometric mean.
[h] Enterococci monthly average is calculated as a geometric mean. Samples must be taken at least 7 days apart.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
3. At least 85% removal for BOD and TSS must be attained for this effluent.

The basis for the limitations codes are:
1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - STORM WATER EFFLUENT LIMITATIONS/MONITORING

OUTFALLS #002, 003, 005-007
Outfall Description: Stormwater Not Associated With Regulated Industrial Activity
SIC CODE: 4952

THESE OUTFALLS SHALL CONTAIN STORM WATER RUNOFF NOT ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY WHERE NO MONITORING IS REQUIRED. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS.

No exposure status has been given to these outfalls.

TABLE II - MUNICIPAL MINOR EFFLUENT LIMITATIONS
Attachment 5 continued

Final Chlorine Limitations Effective Dates - From: Permit Issuance To: Permit Expiration

TRC **	AFTER CL2 CONTACT TANK (Dechlor. Required)			AFTER DECHLORINATION		AFTER CL2 CONTACT TANK (Dechlor. Not Required)				
	MIN.	EXC.	INST. MIN.	WKLY AVG.	INST. MAX.	PERMIT RANGE	EXC.	REPORT-ING RANGE	EXC.	TECH. MAX.
a) Non-Detect. Dechlor. Required	---	---	---	---	---	NA	NA	NA	NA	NA
b) Detect. Dechlor. Required	**0.50 mg/l**	**36**	**0.5 mg/l***	**1.3 mg/l**	---	NA	NA	NA	NA	NA
c) No Dechlor.	NA	NA	NA	NA	NA	---	---	---	---	---

* Reporting is required when 3 or more consecutive readings are <0.5 mg/l or when the TRC is <0.1 mg/l.

** --Chlorine mass balance Cw (W for Tidal systems): check one

____a) $C_w < 0.1$ mg/l [dechlor. required, non-detectable format]

__X__b) 0.1 mg/l $\leq C_w <$ 2.0 mg/l (2.5 mg/l for PWS, Shellfish waters) [dechlor. required, detectable format]

___ c) $C_w > 2.0$ mg/l (2.5 mg/l for PWS, Shellfish waters) [dechlor. not required, include a restrictive technology max. value]

The design flow of this treatment facility is 15 MGD.

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

See Part I.B. for additional TRC limitations.

ATTACHMENT 6

EFFLUENT LIMITATIONS/MONITORING RATIONALE/SUITABLE DATA/ ANTIDEGRADATION/ANTIBACKSLIDING

HRSD York River STP
Rationale For Parameters, Limitations, And Sampling Requirements
Outfall 001

Flow:

No limit, monitoring is required with continuous, totalizing, indicating or recording equipment. This based on the VPDES Permit Manual, and is standard for sanitary wastewater plants with discharges greater than 2 MGD. The design flow of 15 MGD is the baseline for the 95% design flow capacity notification.

pH:

Minimum limit of 6.0 and maximum of 9.0 S.U. These limits are based on Federal Effluent Guidelines (40 CFR 133.102) and Water Quality Standards in 9 VAC 25-260-50, which limits pH to the range above for coastal waters of the State. Monitoring is a daily grab sample and is standard for sanitary WW plants with discharges greater than 2 MGD.

Biochemical Oxygen Demand:

Monthly average of 30 mg/l and 1703 kg/day and a weekly average of 45 mg/l and 2555 kg/day. This is based on Federal Effluent Guidelines (40 CFR 133.102) which sets the limits for secondary WW plants. Loading limits are in whole numbers based upon the latest DEQ significant figures guidance (06-2016). Monitoring required is a 24 hour composite, 3 days a week. The frequency is based upon previous permit reissuances where DEQ guidance document 98-2005 was used to decrease the monitoring frequency to 3 days/week. This will be carried forward for this reissuance.

Total Suspended Solids:

Monthly average of 30 mg/l and 1703 kg/day and a weekly average of 45 mg/l and 2555 kg/day. This is based on Federal Effluent Guidelines (40 CFR 133.102) which sets the limits for secondary WW plants. Loading limits are in whole numbers based upon the latest DEQ significant figures guidance (06-2016). Monitoring required is a 24 hour composite, 3 days a week. The frequency is based upon previous permit reissuances where DEQ guidance document 98-2005 was used to decrease the monitoring frequency to 3 days/week. This will be carried forward for this reissuance.

Total Residual Contact Chlorine:

Minimum limit after contact time is 0.50 mg/l with 36 exceptions. This value was determined from the HRSD Chlorine Reduction Test which was approved by DEQ in February 1997. In addition, it follows the requirements of the VPDES permit manual. These process monitoring limits are believed necessary to ensure proper disinfection. Monitoring required is a grab sample once every two hours. This is based on the VPDES Permit Manual and is standard for municipal discharges of > 2.0 MGD to nutrient enriched waters.

A special condition requires reporting if the chlorine concentration falls below 0.5 mg/l or chlorination is lost (<0.01 mg/l).

Final Total Residual Chlorine: A weekly average of 1.3 mg/l. A monthly average of 0.20 mg/l. This is a technology based limit following guidance document 00-2011 and is carried forward from the current permit. Monitoring is required once/day by grab sample. The frequency is based on the VPDES permit manual and is standard for municipal discharges of >2.0 MGD.

Fecal Coliform: Monthly average of 200 n/cml. This is based on Water Quality Standards (9 VAC 25-260-160) and is believed protective of instream standards. Monitoring required is a grab sample once a week. The VPDES Manual allows reduction to this frequency based on long term average discharge values in relation to the monthly average limit. Current guidance requires fecal coliform monitoring in salt or transition waters if the discharge is to shellfish waters. BPJ determines that this frequency is adequate to determine compliance with the standard.

Enterococci: A monthly average limit of 35 n/cml is included per water quality standards. Sampling is required 2/Month to be calculated as a geometric mean. Samples must be taken at least 7 days apart. This is carried forward from the current permit. Enterococci was added at the time the last permit modification due to Enterococci monitoring becoming an issue that EPA addressed in late 2007/early 2008.

Total Phosphorus Calendar Year An annual average concentration limit of 0.70 mg/l is placed in the permit with monitoring on an annual basis. Additional nutrient monitoring and reporting is covered under the General VPDES Watershed Permit for Total Nitrogen and Total Phosphorus. The York River HRSD facility is covered under VAN030052. On 5/16/07 guidance document 07-2008 was released by DEQ Central Office for the implementation of the nutrient general permit in relation to the individual permit. The CTO for this facility was issued 10/13/11 and the TP limit of 0.70 mg/l became effective. The limit is carried forward to the reissued permit.

Total Phosphorus Year-to-Date There is no limit for the monthly average TP Year-to-date parameter. This parameter was added to the permit in accordance with guidance document 07-2008. Reporting is 1/M and is a calculation. Data for this parameter is collected in accordance with the VPDES permit VAN030052 for the York River Watershed held by HRSD.

Total Phosphorus There is no limit for the monthly average phosphorus parameter. This parameter was added to the permit in accordance with guidance document 07-2008. Reporting is 1/M. Data for this parameter is collected in accordance with the VPDES permit VAN030052 for the York River Watershed. Reporting for this parameter is required in the individual permit (IP) because the annual concentration limits is contained in the IP. All data used to calculate and determine compliance with the limit in the IP needs to be in the same document and reported on the same form as the limit.

Total Nitrogen Calendar Year A limit of 8.0 mg/l will be added for Total Nitrogen as a final limit Part I Section C.4 of the permit states that upon issuance of a CTC, DEQ staff shall initiate

modification of this permit to include annual concentrations limits based on the nutrient removal technologies listed in the CTC. The CTC for this facility was issued on 5/12/08 by DEQ office of wastewater engineering staff. The permit was modified to include the TN limit. The CTO was issued on 10/13/11 and the limit became effective. The limit of 8.0 mg/l is in accordance with the significant figure guidance document 06-2016.

Total Nitrogen Year-to-Date

There is no limit for the monthly average TN Year-to-date parameter. This parameter was added to the permit in accordance with guidance document 07-2008. Reporting is 1/M and is a calculation. Data for this parameter is collected in accordance with the VPDES permit VAN030052 for the York River Watershed held by HRSD.

Total Nitrogen

There will be no limit for the monthly average nitrogen. This parameter is added to the modified permit as a final limit and reporting will become effective upon the issuance date of the CTO for the nutrient removal facilities. This parameter was added to the permit in accordance with guidance document 07-2008. Reporting will be 1/M. Data for this parameter is collected in accordance with the VPDES permit VAN030052 for the York River Watershed. Reporting for this parameter is required in the individual permit (IP) because the annual concentration limits is contained in the IP. All data used to calculate and determine compliance with the limit in the IP needs to be in the same document and reported on the same form as the limit.

Water Quality Standards Reasonable Potential

Nickel, Zinc, Chloroform, and Ammonia all had a quantifiable concentration for the data gathered for the 2012 application. However, these data points were significantly below the most limiting wasteload allocations found in the attached wasteload allocation analysis. No limits were needed for these parameters.

All other water quality parameters reported on Form 2A were below the quantification levels. No additional limits are needed at this time.

Mixing Zone Analysis

The acute dilution ratio of 58:1 was approved by DEQ in a letter dated October 4, 1999. A dilution of 425:1 was determined by HRSD in a memo dated April 6, 1984 for chronic dilution. The chronic dilution is an estimate of the combined Dominion Power and HRSD wastewater discharges through the Dominion Power multi-port diffuser.

Stormwater

Outfalls 002, 003, 005-007 are discharges of stormwater from the plant (industrial) area. HRSD submitted stormwater sample data from one outfall located at the York River HRSD plant. It is HRSD's position that this data represents all the stormwater outfall discharges for this plant site.
HRSD has met the requirements for industrial "no exposure", thereby only discharging stormwater not associated with an industrial activity. The Stormwater Management Condition has been removed from the permit. The "no exposure" certification form is attached to the section.

VIRGINIA DEQ NO EXPOSURE CERTIFICATION
FOR EXCLUSION FROM VPDES STORM WATER PERMITTING

Submission of this **No Exposure Certification** constitutes notice that the entity identified below does not require permit authorization for its storm water discharges associated with industrial activity under the VPDES Permit Program due to the existence of a condition of **No Exposure**.

A condition of **No Exposure** exists at an industrial facility when all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product or waste product. A storm resistant shelter is not required for the following industrial materials and activities:

- drums, barrels, tanks, and similar containers that are tightly sealed, provided those containers are not deteriorated and do not leak. "Sealed" means banded or otherwise secured and without operational taps or valves;
- adequately maintained vehicles used in material handling; and
- final products, other than products that would be mobilized in storm water discharges (e.g., rock salt).

A No Exposure Certification must be provided for each facility qualifying for the No Exposure exclusion. In addition, the exclusion from VPDES permitting is available on a facility-wide basis only, not for individual outfalls. If any industrial activities or materials are or will be exposed to precipitation, the facility is not eligible for the No Exposure exclusion.

By signing and submitting this No Exposure Certification form, the entity below is certifying that a condition of No Exposure exists at its facility or site, and is obligated to comply with the terms and conditions at 9 VAC 25-31-120 E (the VPDES Permit Regulation).

Please Type or Print All Information. ALL INFORMATION ON THIS FORM MUST BE PROVIDED.

1. **Facility Operator Information**

   Name: Hampton Roads Sanitation District

   Mailing Address: 1436 Air Rail Avenue

   City: Virginia Beach State: VA Zip: 23455 Phone: 757-460-2261

2. **Facility/Site Location Information**

   Facility Name: York River STP

   Address: 515 Back Creek Road

   City: Seaford State: VA Zip: 23696

   County Name: York

   Latitude: 37 12' 15" Longitude: 76 26' 45"

3. **Was the facility or site previously covered under a VPDES storm water permit?** Yes ☑ No ☐

   If "Yes", enter the VPDES permit number: VA0081311

4. **SIC/Activity Codes:** Primary: 4952 Secondary (if applicable): _____

5. **Total size of facility/site associated with industrial activity:** 37.9 acres

6. **Have you paved or roofed over a formerly exposed pervious area in order to qualify for the No Exposure exclusion?** Yes ☐ No ☑

   If "Yes", please indicate approximately how much area was paved or roofed. Completing this question does not disqualify you for the No Exposure exclusion. However, DEQ may use this information in considering whether storm water discharges from your site are likely to have an adverse impact on water quality, in which case you could be required to obtain permit coverage.

   Less than one acre ☐ One to five acres ☐ More than five acres ☐

7. Exposure Checklist

Are any of the following materials or activities exposed to precipitation, now or in the foreseeable future? (Please check either "Yes" or "No" in the appropriate box.) **If you answer "Yes" to any of these questions (1) through (11), you are <u>not</u> eligible for the No Exposure exclusion.**

	Yes	No
(1) Using, storing or cleaning industrial machinery or equipment, and areas where residuals from using, storing or cleaning industrial machinery or equipment remain and are exposed to storm water	☐	☑
(2) Materials or residuals on the ground or in storm water inlets from spill/leaks	☐	☑
(3) Materials or products from past industrial activity	☐	☑
(4) Material handling equipment (except adequately maintained vehicles)	☐	☑
(5) Materials or products during loading/unloading or transporting activities	☐	☑
(6) Materials or products stored outdoors (except final products intended for outside use [e.g., new cars] where exposure to storm water does not result in the discharge of pollutants)	☐	☑
(7) Materials contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers	☐	☑
(8) Materials or products handled/stored on roads or railways owned or maintained by the discharger	☐	☑
(9) Waste material (except waste in covered, non-leaking containers [e.g., dumpsters])	☐	☑
(10) Application or disposal of process wastewater (unless otherwise permitted)	☐	☑
(11) Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e., under an air quality control permit) and evident in the storm water outflow	☐	☑

8. Certification Statement

I certify under penalty of law that I have read and understand the eligibility requirements for claiming a condition of no exposure and obtaining an exclusion from VPDES storm water permitting; and that there are no discharges of storm water contaminated by exposure to industrial activities or materials from the industrial facility identified in this document (except as allowed under 9 VAC 25-31-120 E 2).

I understand that I am obligated to submit a No Exposure Certification form once every five years to the Department of Environmental Quality and, if requested, to the operator of the local MS4 into which this facility discharges (where applicable). I understand that I must allow the Department, or MS4 operator where the discharge is into the local MS4, to perform inspections to confirm the condition of no exposure and to make such inspection reports publicly available upon request. I understand that I must obtain coverage under a VPDES permit prior to any point source discharge of storm water associated with industrial activity from the facility.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Edward G. Henifin, P.E.

Print Title: General Manager

Signature: [signature]

Date: 2/24/2012

For Department of Environmental Quality Use Only

Accepted/Not Accepted by: [signature] Date: 3/7/12

SALTWATER AND TRANSITION ZONES
WATER QUALITY CRITERIA / WASTELOAD ALLOCATION ANALYSIS

Facility Name: HRSD-York River
Receiving Stream: York River

Permit No.: VA0081311

Version: OWP Guidance Memo 00-2011 (8/24/00)

Stream Information

Mean Hardness (as CaCO3) =	400	mg/l
90th % Temperature (Annual) =	26.2	(° C)
90th % Temperature (Winter) =	15.6	(° C)
90th % Maximum pH =	8.01	
10th % Maximum pH =	7.5	
Tier Designation (1 or 2) =	1	
Early Life Stages Present Y/N =	Y	
Tidal Zone =	1	(1 = saltwater, 2 = transition zone)
Mean Salinity =	18.79	(g/kg)

Mixing Information

Design Flow (MGD)	15
Acute WLA multiplier	58
Chronic WLA multiplier	425
Human health WLA multiplier	425

Effluent Information

Mean Hardness (as CaCO3) =	100	mg/L
90 % Temperature (Annual) =		(° C)
90 % Temperature (Winter) =	14	(° C)
90 % Maximum pH =	7.6	SU
10 % Maximum pH =	6.8	SU
Discharge Flow =	15	MGD

Parameter	Background	Water Quality Criteria			Wasteload Allocations			Antidegradation Baseline			Antidegradation Allocations			Most Limiting Allocations		
(ug/l unless noted)	Conc.	Acute	Chronic	HH	Acute	Chronic	HH	Acute	Chronic	HH	Acute	Chronic	HH	Acute	Chronic	HH
Acenapthene	0	--	--	9.9E+02	--	--	4.2E+05	--	--	--	--	--	--	--	--	4.2E+05
Acrolein		--	--	9.3E+00	--	--	4.0E+03	--	--	--	--	--	--	--	--	4.0E+03
Acrylonitrile[C]		--	--	2.5E+00	--	--	1.1E+03	--	--	--	--	--	--	--	--	1.1E+03
Aldrin [C]	0	1.3E+00	--	5.0E-04	7.5E+01	--	2.1E-01	--	--	--	--	--	--	7.5E+01	--	2.1E-01
Ammonia-N (mg/l) - Annual	0	3.79E+00	5.43E-01	--	2.20E+02	2.31E+02	--	--	--	--	--	--	--	2.20E+02	2.31E+02	--
Ammonia-N (mg/l) - Winter	0	7.88E+00	1.16E+00	--	4.57E+02	4.92E+02	--	--	--	--	--	--	--	4.57E+02	4.92E+02	--
Anthracene	0	--	--	4.0E+04	--	--	1.7E+07	--	--	--	--	--	--	--	--	1.7E+07
Antimony	0	--	--	6.4E+02	--	--	2.7E+05	--	--	--	--	--	--	--	--	2.7E+05
Arsenic	0	6.9E+01	3.6E+01	--	4.0E+03	1.5E+04	--	--	--	--	--	--	--	4.0E+03	1.5E+04	--
Benzene [C]	0	--	--	5.1E+02	--	--	2.2E+05	--	--	--	--	--	--	--	--	2.2E+05
Benzidine[C]		--	--	2.0E-03	--	--	8.5E-01	--	--	--	--	--	--	--	--	8.5E-01
Benzo (a) anthracene [C]	0	--	--	1.8E-01	--	--	7.7E+01	--	--	--	--	--	--	--	--	7.7E+01
Benzo (b) fluoranthene [C]	0	--	--	1.8E-01	--	--	7.7E+01	--	--	--	--	--	--	--	--	7.7E+01
Benzo (k) fluoranthene [C]	0	--	--	1.8E-01	--	--	7.7E+01	--	--	--	--	--	--	--	--	7.7E+01
Benzo (a) pyrene [C]	0	--	--	1.8E-01	--	--	7.7E+01	--	--	--	--	--	--	--	--	7.7E+01
Bis2-Chloroethyl Ether[C]	0	--	--	5.3E+00	--	--	2.3E+03	--	--	--	--	--	--	--	--	2.3E+03
Bis2-Chloroisopropyl Ether	0	--	--	6.5E+04	--	--	2.8E+07	--	--	--	--	--	--	--	--	2.8E+07
Bis2-Ethylhexyl Phthalate[C]	0	--	--	2.2E+01	--	--	9.4E+03	--	--	--	--	--	--	--	--	9.4E+03
Bromoform [C]	0	--	--	1.4E+03	--	--	6.0E+05	--	--	--	--	--	--	--	--	6.0E+05
Butylbenzylphthalate	0	--	--	1.9E+03	--	--	8.1E+05	--	--	--	--	--	--	--	--	8.1E+05
Cadmium	0	4.0E+01	8.8E+00	--	2.3E+03	3.7E+03	--	--	--	--	--	--	--	2.3E+03	3.7E+03	--
Carbon Tetrachloride [C]	0	--	--	1.6E+01	--	--	6.8E+03	--	--	--	--	--	--	--	--	6.8E+03
Chlordane [C]	0	9.0E-02	4.0E-03	8.1E-03	5.2E+00	1.7E+00	3.4E+00	--	--	--	--	--	--	5.2E+00	1.7E+00	3.4E+00

Parameter	Background	Water Quality Criteria			Wasteload Allocations			Antidegradation Baseline			Antidegradation Allocations			Most Limiting Allocations		
(ug/l unless noted)	Conc.	Acute	Chronic	HH	Acute	Chronic	HH	Acute	Chronic	HH	Acute	Chronic	HH	Acute	Chronic	HH
TRC	0			--			--	--	--	--	--	--	--	--	--	--
Chlorine Prod. Oxidant	0	1.3E+01	7.5E+00	--	7.5E+02	3.2E+03	--	--	--	--	--	--	--	7.5E+02	3.2E+03	--
Chlorobenzene		--	--	1.6E+03	--	--	6.8E+05	--	--	--	--	--	--	--	--	6.8E+05
Chlorodibromomethane[C]	0	--	--	1.3E+02	--	--	5.5E+04	--	--	--	--	--	--	--	--	5.5E+04
Chloroform	0	--	--	1.1E+04	--	--	4.7E+06	--	--	--	--	--	--	--	--	4.7E+06
2-Chloronaphthalene	0	--	--	1.6E+03	--	--	6.8E+05	--	--	--	--	--	--	--	--	6.8E+05
2-Chlorophenol	0	--	--	1.5E+02	--	--	6.4E+04	--	--	--	--	--	--	--	--	6.4E+04
Chlorpyrifos	0	1.1E-02	5.6E-03	--	6.4E-01	2.4E+00	--	--	--	--	--	--	--	6.4E-01	2.4E+00	--
Chromium III	0			--			--	--	--	--	--	--	--	--	--	--
Chromium VI	0	1.1E+03	5.0E+01	--	6.4E+04	2.1E+04	--	--	--	--	--	--	--	6.4E+04	2.1E+04	--
Chrysene[C]	0	--	--	1.8E-02	--	--	7.7E+00	--	--	--	--	--	--	--	--	7.7E+00
Copper	0	9.3E+00	6.0E+00	--	5.4E+02	2.6E+03	--	--	--	--	--	--	--	5.4E+02	2.6E+03	--
Cyanide, Free	0	1.0E+00	1.0E+00	1.6E+04	5.8E+01	4.3E+02	6.8E+06	--	--	--	--	--	--	5.8E+01	4.3E+02	6.8E+06
DDD[C]	0	--	--	3.1E-03	--	--	1.3E+00	--	--	--	--	--	--	--	--	1.3E+00
DDE[C]	0	--	--	2.2E-03	--	--	9.4E-01	--	--	--	--	--	--	--	--	9.4E-01
DDT[C]	0	1.3E-01	1.0E-03	2.2E-03	7.5E+00	4.3E-01	9.4E-01	--	--	--	--	--	--	7.5E+00	4.3E-01	9.4E-01
Demeton	0	--	1.0E-01	--	--	4.3E+01	--	--	--	--	--	--	--	--	4.3E+01	--
Diazinon	0	8.2E-01	8.2E-01	--	4.8E+01	3.5E+02	--	--	--	--	--	--	--	4.8E+01	3.5E+02	--
Dibenz(a,h)anthracene[C]	0	--	--	1.8E-01	--	--	7.7E+01	--	--	--	--	--	--	--	--	7.7E+01
1,2-Dichlorobenzene	0	--	--	1.3E+03	--	--	5.5E+05	--	--	--	--	--	--	--	--	5.5E+05
1,3-Dichlorobenzene	0	--	--	9.6E+02	--	--	4.1E+05	--	--	--	--	--	--	--	--	4.1E+05
1,4-Dichlorobenzene	0	--	--	1.9E+02	--	--	8.1E+04	--	--	--	--	--	--	--	--	8.1E+04
3,3-Dichlorobenzidine[C]	0	--	--	2.8E-01	--	--	1.2E+02	--	--	--	--	--	--	--	--	1.2E+02
Dichlorobromomethane[C]	0	--	--	1.7E+02	--	--	7.2E+04	--	--	--	--	--	--	--	--	7.2E+04
1,2-Dichloroethane[C]	0	--	--	3.7E+02	--	--	1.6E+05	--	--	--	--	--	--	--	--	1.6E+05
1,1-Dichloroethylene	0	--	--	7.1E+03	--	--	3.0E+06	--	--	--	--	--	--	--	--	3.0E+06
1,2-trans-dichloroethylene	0	--	--	1.0E+04	--	--	4.3E+06	--	--	--	--	--	--	--	--	4.3E+06
2,4-Dichlorophenol	0	--	--	2.9E+02	--	--	1.2E+05	--	--	--	--	--	--	--	--	1.2E+05
1,2-Dichloropropane[C]	0	--	--	1.5E+02	--	--	6.4E+04	--	--	--	--	--	--	--	--	6.4E+04
1,3-Dichloropropene[C]	0	--	--	2.1E+02	--	--	8.9E+04	--	--	--	--	--	--	--	--	8.9E+04
Dieldrin[C]	0	7.1E-01	1.9E-03	5.4E-04	4.1E+01	8.1E-01	2.3E-01	--	--	--	--	--	--	4.1E+01	8.1E-01	2.3E-01
Diethyl Phthalate	0	--	--	4.4E+04	--	--	1.9E+07	--	--	--	--	--	--	--	--	1.9E+07
2,4-Dimethylphenol	0	--	--	8.5E+02	--	--	3.6E+05	--	--	--	--	--	--	--	--	3.6E+05
Dimethyl Phthalate	0	--	--	1.1E+06	--	--	4.7E+08	--	--	--	--	--	--	--	--	4.7E+08
Di-n-Butyl Phthalate	0	--	--	4.5E+03	--	--	1.9E+06	--	--	--	--	--	--	--	--	1.9E+06
2,4 Dinitrophenol	0	--	--	5.3E+03	--	--	2.3E+06	--	--	--	--	--	--	--	--	2.3E+06
2-Methyl-4,6-Dinitrophenol	0	--	--	2.8E+02	--	--	1.2E+05	--	--	--	--	--	--	--	--	1.2E+05
2,4-Dinitrotoluene[C]	0	--	--	3.4E+01	--	--	1.4E+04	--	--	--	--	--	--	--	--	1.4E+04
Dioxin 2,3,7,8-tetrachlorodibenzo-p-dioxin	0	--	--	5.1E-08	--	--	2.2E-05	--	--	--	--	--	--	--	--	2.2E-05
1,2-Diphenylhydrazine[C]	0	--	--	2.0E+00	--	--	8.5E+02	--	--	--	--	--	--	--	--	8.5E+02
Alpha-Endosulfan	0	3.4E-02	8.7E-03	8.9E+01	2.0E+00	3.7E+00	3.8E+04	--	--	--	--	--	--	2.0E+00	3.7E+00	3.8E+04

Parameter	Background	Water Quality Criteria			Wasteload Allocations			Antidegradation Baseline			Antidegradation Allocations			Most Limiting Allocations		
(ug/l unless noted)	Conc.	Acute	Chronic	HH	Acute	Chronic	HH	Acute	Chronic	HH	Acute	Chronic	HH	Acute	Chronic	HH
Beta-Endosulfan	0	3.4E-02	8.7E-03	8.9E+01	2.0E+00	3.7E+00	3.8E+04	--	--	--	--	--	--	2.0E+00	3.7E+00	3.8E+04
Alpha + Beta Endosulfan	0	3.4E-02	8.7E-03	--	2.0E+00	3.7E+00	--	--	--	--	--	--	--	2.0E+00	3.7E+00	--
Endosulfan Sulfate	0	--	--	8.9E+01	--	--	3.8E+04	--	--	--	--	--	--	--	--	3.8E+04
Endrin	0	3.7E-02	2.3E-03	6.0E-02	2.1E+00	9.8E-01	2.6E+01	--	--	--	--	--	--	2.1E+00	9.8E-01	2.6E+01
Endrin Aldehyde	0	--	--	3.0E-01	--	--	1.3E+02	--	--	--	--	--	--	--	--	1.3E+02
Ethylbenzene	0	--	--	2.1E+03	--	--	8.9E+05	--	--	--	--	--	--	--	--	8.9E+05
Fluoranthene	0	--	--	1.4E+02	--	--	6.0E+04	--	--	--	--	--	--	--	--	6.0E+04
Fluorene	0	--	--	5.3E+03	--	--	2.3E+06	--	--	--	--	--	--	--	--	2.3E+06
Guthion	0	--	1.0E-02	--	--	4.3E+00	--	--	--	--	--	--	--	--	4.3E+00	--
Heptachlor [C]	0	5.3E-02	3.6E-03	7.9E-04	3.1E+00	1.5E+00	3.4E-01	--	--	--	--	--	--	3.1E+00	1.5E+00	3.4E-01
Heptachlor Epoxide [C]	0	5.3E-02	3.6E-03	3.9E-04	3.1E+00	1.5E+00	1.7E-01	--	--	--	--	--	--	3.1E+00	1.5E+00	1.7E-01
Hexachlorobenzene [C]	0	--	--	2.9E-03	--	--	1.2E+00	--	--	--	--	--	--	--	--	1.2E+00
Hexachlorobutadiene [C]	0	--	--	1.8E+02	--	--	7.7E+04	--	--	--	--	--	--	--	--	7.7E+04
Hexachlorocyclohexane Alpha-BHC [C]	0	--	--	4.9E-02	--	--	2.1E+01	--	--	--	--	--	--	--	--	2.1E+01
Hexachlorocyclohexane Beta-BHC [C]	0	--	--	1.7E-01	--	--	7.2E+01	--	--	--	--	--	--	--	--	7.2E+01
Hexachlorocyclohexane Gamma-BHC [C] (Lindane)	0	1.6E-01	--	1.8E+00	9.3E+00	--	7.7E+02	--	--	--	--	--	--	9.3E+00	--	7.7E+02
Hexachlorocyclopentadiene	0	--	--	1.1E+03	--	--	4.7E+05	--	--	--	--	--	--	--	--	4.7E+05
Hexachloroethane [C]	0	--	--	3.3E+01	--	--	1.4E+04	--	--	--	--	--	--	--	--	1.4E+04
Hydrogen Sulfide	0	--	2.0E+00	--	--	8.5E+02	--	--	--	--	--	--	--	--	8.5E+02	--
Indeno (1,2,3-cd) pyrene C	0	--	--	1.8E-01	--	--	7.7E+01	--	--	--	--	--	--	--	--	7.7E+01
Isophorone [C]	0	--	--	9.6E+03	--	--	4.1E+06	--	--	--	--	--	--	--	--	4.1E+06
Kepone	0	--	0.0E+00	--	--	0.0E+00	--	--	--	--	--	--	--	--	0.0E+00	--
Lead	0	2.4E+02	9.3E+00	--	1.4E+04	4.0E+03	--	--	--	--	--	--	--	1.4E+04	4.0E+03	--
Malathion	0	--	1.0E-01	--	--	4.3E+01	--	--	--	--	--	--	--	--	4.3E+01	--
Mercury	0	1.8E+00	9.4E-01	--	1.0E+02	4.0E+02	--	--	--	--	--	--	--	1.0E+02	4.0E+02	--
Methyl Bromide	0	--	--	1.5E+03	--	--	6.4E+05	--	--	--	--	--	--	--	--	6.4E+05
Methylene Chloride [C]	0	--	--	5.9E+03	--	--	2.5E+06	--	--	--	--	--	--	--	--	2.5E+06
Methoxychlor	0	--	3.0E-02	--	--	1.3E+01	--	--	--	--	--	--	--	--	1.3E+01	--
Mirex	0	--	0.0E+00	--	--	0.0E+00	--	--	--	--	--	--	--	--	0.0E+00	--
Nickel	0	7.4E+01	8.2E+00	4.6E+03	4.3E+03	3.5E+03	2.0E+06	--	--	--	--	--	--	4.3E+03	3.5E+03	2.0E+06
Nitrobenzene	0	--	--	6.9E+02	--	--	2.9E+05	--	--	--	--	--	--	--	--	2.9E+05
N-Nitrosodimethylamine [C]	0	--	--	3.0E+01	--	--	1.3E+04	--	--	--	--	--	--	--	--	1.3E+04
N-Nitrosodiphenylamine [C]	0	--	--	6.0E+01	--	--	2.6E+04	--	--	--	--	--	--	--	--	2.6E+04
N-Nitrosodi-n-propylamine [C]	0	--	--	5.1E+00	--	--	2.2E+03	--	--	--	--	--	--	--	--	2.2E+03
Nonylphenol	0	7.0E+00	1.7E+00	--	4.1E+02	7.2E+02	--	--	--	--	--	--	--	4.1E+02	7.2E+02	--
Parathion	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCB Total [C]	0	--	3.0E-02	6.4E-04	--	1.3E+01	2.7E-01	--	--	--	--	--	--	--	1.3E+01	2.7E-01
Pentachlorophenol [C]	0	1.3E+01	7.9E+00	3.0E+01	7.5E+02	3.4E+03	1.3E+04	--	--	--	--	--	--	7.5E+02	3.4E+03	1.3E+04

Parameter	Background	Water Quality Criteria			Wasteload Allocations			Antidegradation Baseline			Antidegradation Allocations			Most Limiting Allocations		
(ug/l unless noted)	Conc.	Acute	Chronic	HH	Acute	Chronic	HH	Acute	Chronic	HH	Acute	Chronic	HH	Acute	Chronic	HH
Phenol	0	--	--	8.6E+05	--	--	3.7E+08	--	--	--	--	--	--	--	--	3.7E+08
Phosphorus (Elemental)	0	--	1.0E-01	--	--	4.3E+01	--	--	--	--	--	--	--	--	4.3E+01	--
Pyrene	0	--	--	4.0E+03	--	--	1.7E+06	--	--	--	--	--	--	--	--	1.7E+06
Selenium	0	2.9E+02	7.1E+01	4.2E+03	1.7E+04	3.0E+04	1.8E+06	--	--	--	--	--	--	1.7E+04	3.0E+04	1.8E+06
Silver	0	1.9E+00	--	--	1.1E+02	--	--	--	--	--	--	--	--	1.1E+02	--	--
1,1,2,2-Tetrachloroethane[C]	0	--	--	4.0E+01	--	--	1.7E+04	--	--	--	--	--	--	--	--	1.7E+04
Tetrachloroethylene[C]	0	--	--	3.3E+01	--	--	1.4E+04	--	--	--	--	--	--	--	--	1.4E+04
Thallium	0	--	--	4.7E-01	--	--	2.0E+02	--	--	--	--	--	--	--	--	2.0E+02
Toluene	0	--	--	6.0E+03	--	--	2.6E+06	--	--	--	--	--	--	--	--	2.6E+06
Toxaphene [C]	0	2.1E-01	2.0E-04	2.8E-03	1.2E+01	8.5E-02	1.2E+00	--	--	--	--	--	--	1.2E+01	8.5E-02	1.2E+00
Tributyltin	0	4.2E-01	7.4E-03	--	2.4E+01	3.1E+00	--	--	--	--	--	--	--	2.4E+01	3.1E+00	--
1,2,4-Trichlorobenzene	0	--	--	7.0E+01	--	--	3.0E+04	--	--	--	--	--	--	--	--	3.0E+04
1,1,2-Trichloroethane[C]		--	--	1.6E+02	--	--	6.8E+04	--	--	--	--	--	--	--	--	6.8E+04
Trichloroethylene [C]	0	--	--	3.0E+02	--	--	1.3E+05	--	--	--	--	--	--	--	--	1.3E+05
2,4,6-Trichlorophenol [C]	0	--	--	2.4E+01	--	--	1.0E+04	--	--	--	--	--	--	--	--	1.0E+04
Vinyl Chloride[C]	0	--	--	2.4E+01	--	--	1.0E+04	--	--	--	--	--	--	--	--	1.0E+04
Zinc	0	9.0E+01	8.1E+01	2.6E+04	5.2E+03	3.4E+04	1.1E+07	--	--	--	--	--	--	5.2E+03	3.4E+04	1.1E+07

Notes:

1. All concentrations expressed as micrograms/liter (ug/l), unless noted otherwise
2. Discharge flow is highest monthly average or Form 2C maximum for Industries and design flow for Municipals
3. Metals measured as Dissolved, unless specified otherwise
4. "C" indicates a carcinogenic parameter
5. For transition zone waters, spreadsheet prints the lesser of the freshwater and saltwater water quality criteria.
6. Regular WLA = (WQC x WLA multiplier) - (WLA multiplier - 1)(background conc.)
7. Antideg. Baseline = (0.25(WQC - background conc.) + background conc.) for acute and chronic
   = (0.1(WQC - background conc.) + background conc.) for human health
8. Antideg. WLA = (Antideg. Baseline)(WLA multiplier) - (WLA multiplier - 1)(background conc.)

Metal	Site Specific Target Value (SSTV)
Antimony	2.7E+05
Arsenic III	1.6E+03
Cadmium	9.3E+02
Chromium III	#VALUE!
Chromium VI	1.3E+04
Copper	2.2E+02
Lead	2.4E+03
Mercury	4.2E+01
Nickel	1.7E+03
Selenium	6.7E+03
Silver	4.4E+01
Zinc	2.1E+03

Note: do not use QL's lower than the minimum QL's provided in agency guidance

Permit No	Parameter Description	QTYAVG	QTYMAX	CONCMIN	CONCAVG	CONCMAX	Start Date	End Date
VA0081311	BOD5	124	172		3	4	1-Dec-07	31-Dec-07
VA0081311	BOD5	181	227		5	5	1-Jan-08	31-Jan-08
VA0081311	BOD5	257	295		6	6	1-Feb-08	29-Feb-08
VA0081311	BOD5	303	390		7	9	1-Mar-08	31-Mar-08
VA0081311	BOD5	273	587		5	10	1-Apr-08	30-Apr-08
VA0081311	BOD5	21	50		0	1	1-May-08	31-May-08
VA0081311	BOD5	15	61		0	2	1-Jun-08	30-Jun-08
VA0081311	BOD5	26	49		1	1	1-Jul-08	31-Jul-08
VA0081311	BOD5	43	84		1	2	1-Aug-08	31-Aug-08
VA0081311	BOD5	38	71		1	2	1-Sep-08	30-Sep-08
VA0081311	BOD5	66	100		2	3	1-Oct-08	31-Oct-08
VA0081311	BOD5	176	239		5	6	1-Nov-08	30-Nov-08
VA0081311	BOD5	204	367		5	8	1-Dec-08	31-Dec-08
VA0081311	BOD5	427	537		10	13	1-Jan-09	31-Jan-09
VA0081311	BOD5	283	417		7	11	1-Feb-09	28-Feb-09
VA0081311	BOD5	627	927		12	17	1-Mar-09	31-Mar-09
VA0081311	BOD5	205	213		5	5	1-Apr-09	30-Apr-09
VA0081311	BOD5	173	359		4	7	1-May-09	31-May-09
VA0081311	BOD5	40	47		1	1	1-Jun-09	30-Jun-09
VA0081311	BOD5	52	86		1	2	1-Jul-09	31-Jul-09
VA0081311	BOD5	36	100		1	2	1-Aug-09	31-Aug-09
VA0081311	BOD5	37	96		1	2	1-Sep-09	30-Sep-09
VA0081311	BOD5	91	129		2	3	1-Oct-09	31-Oct-09
VA0081311	BOD5	164	265		3	5	1-Nov-09	30-Nov-09
VA0081311	BOD5	384	405		6	6	1-Dec-09	31-Dec-09
VA0081311	BOD5	459	721		8	12	1-Jan-10	31-Jan-10
VA0081311	BOD5	347	393		6	6	1-Feb-10	28-Feb-10
VA0081311	BOD5	239	291		4	6	1-Mar-10	31-Mar-10
VA0081311	BOD5	226	311		5	7	1-Apr-10	30-Apr-10
VA0081311	BOD5	133	191		3	5	1-May-10	31-May-10
VA0081311	BOD5	84	115		2	3	1-Jun-10	30-Jun-10
VA0081311	BOD5	29	74		1	2	1-Jul-10	31-Jul-10
VA0081311	BOD5	11	21		0	1	1-Aug-10	31-Aug-10
VA0081311	BOD5	32	27		1	1	1-Sep-10	30-Sep-10
VA0081311	BOD5	25	49		1	1	1-Oct-10	31-Oct-10
VA0081311	BOD5	80	146		2	4	1-Nov-10	30-Nov-10
VA0081311	BOD5	78	63		2	2	1-Dec-10	31-Dec-10
VA0081311	BOD5	482	786		10	17	1-Jan-11	31-Jan-11
VA0081311	BOD5	338	542		7	11	1-Feb-11	28-Feb-11
VA0081311	BOD5	660	968		14	20	1-Mar-11	31-Mar-11
VA0081311	BOD5	623	831		14	18	1-Apr-11	30-Apr-11
VA0081311	BOD5	135	308		3	8	1-May-11	31-May-11
VA0081311	BOD5	48	114		1	3	1-Jun-11	30-Jun-11
VA0081311	BOD5	59	116		1	2	1-Jul-11	31-Jul-11
VA0081311	BOD5	57	101		1	3	1-Aug-11	31-Aug-11
VA0081311	BOD5	33	84		1	2	1-Sep-11	30-Sep-11
VA0081311	BOD5	18	33		0	1	1-Oct-11	31-Oct-11
VA0081311	BOD5	35	53		1	1	1-Nov-11	30-Nov-11
VA0081311	BOD5	62	99		2	3	1-Dec-11	31-Dec-11
VA0081311	BOD5	59	143		2	4	1-Jan-12	31-Jan-12
VA0081311	BOD5	75	115		2	3	1-Feb-12	29-Feb-12
VA0081311	CL2, TOTAL CONTACT			0.1			1-Dec-07	31-Dec-07
VA0081311	CL2, TOTAL CONTACT			0.3			1-Jan-08	31-Jan-08
VA0081311	CL2, TOTAL CONTACT			0.10			1-Feb-08	29-Feb-08
VA0081311	CL2, TOTAL CONTACT			0.35			1-Mar-08	31-Mar-08
VA0081311	CL2, TOTAL CONTACT			0.17			1-Apr-08	30-Apr-08
VA0081311	CL2, TOTAL CONTACT			0.38			1-May-08	31-May-08
VA0081311	CL2, TOTAL CONTACT			0.090			1-Jun-08	30-Jun-08
VA0081311	CL2, TOTAL CONTACT			0.43			1-Jul-08	31-Jul-08
VA0081311	CL2, TOTAL CONTACT			0.26			1-Aug-08	31-Aug-08

Permit No	Parameter Description	QTYAVG	QTYMAX	CONCMIN	CONCAVG	CONCMAX	Start Date	End Date
VA0081311	CL2, TOTAL CONTACT			0.20			1-Sep-08	30-Sep-08
VA0081311	CL2, TOTAL CONTACT			0.22			1-Oct-08	31-Oct-08
VA0081311	CL2, TOTAL CONTACT			0.070			1-Nov-08	30-Nov-08
VA0081311	CL2, TOTAL CONTACT			0.18			1-Dec-08	31-Dec-08
VA0081311	CL2, TOTAL CONTACT			0.31			1-Jan-09	31-Jan-09
VA0081311	CL2, TOTAL CONTACT			0.44			1-Feb-09	28-Feb-09
VA0081311	CL2, TOTAL CONTACT			0.52			1-Mar-09	31-Mar-09
VA0081311	CL2, TOTAL CONTACT			0.47			1-Apr-09	30-Apr-09
VA0081311	CL2, TOTAL CONTACT			0.43			1-May-09	31-May-09
VA0081311	CL2, TOTAL CONTACT			0.29			1-Jun-09	30-Jun-09
VA0081311	CL2, TOTAL CONTACT			0.020			1-Jul-09	31-Jul-09
VA0081311	CL2, TOTAL CONTACT			0.25			1-Aug-09	31-Aug-09
VA0081311	CL2, TOTAL CONTACT			0.34			1-Sep-09	30-Sep-09
VA0081311	CL2, TOTAL CONTACT			0.34			1-Oct-09	31-Oct-09
VA0081311	CL2, TOTAL CONTACT			0.38			1-Nov-09	30-Nov-09
VA0081311	CL2, TOTAL CONTACT			0.34			1-Dec-09	31-Dec-09
VA0081311	CL2, TOTAL CONTACT			0.40			1-Jan-10	31-Jan-10
VA0081311	CL2, TOTAL CONTACT			0.25			1-Feb-10	28-Feb-10
VA0081311	CL2, TOTAL CONTACT			0.31			1-Mar-10	31-Mar-10
VA0081311	CL2, TOTAL CONTACT			0.40			1-Apr-10	30-Apr-10
VA0081311	CL2, TOTAL CONTACT			0.17			1-May-10	31-May-10
VA0081311	CL2, TOTAL CONTACT			0.20			1-Jun-10	30-Jun-10
VA0081311	CL2, TOTAL CONTACT			0.36			1-Jul-10	31-Jul-10
VA0081311	CL2, TOTAL CONTACT			0.41			1-Aug-10	31-Aug-10
VA0081311	CL2, TOTAL CONTACT			0.46			1-Sep-10	30-Sep-10
VA0081311	CL2, TOTAL CONTACT			0.25			1-Oct-10	31-Oct-10
VA0081311	CL2, TOTAL CONTACT			0.11			1-Nov-10	30-Nov-10
VA0081311	CL2, TOTAL CONTACT			0.24			1-Dec-10	31-Dec-10
VA0081311	CL2, TOTAL CONTACT			0.25			1-Jan-11	31-Jan-11
VA0081311	CL2, TOTAL CONTACT			0.36			1-Feb-11	28-Feb-11
VA0081311	CL2, TOTAL CONTACT			0.24			1-Mar-11	31-Mar-11
VA0081311	CL2, TOTAL CONTACT			0.20			1-Apr-11	30-Apr-11
VA0081311	CL2, TOTAL CONTACT			0.24			1-May-11	31-May-11
VA0081311	CL2, TOTAL CONTACT			0.21			1-Jun-11	30-Jun-11
VA0081311	CL2, TOTAL CONTACT			0.29			1-Jul-11	31-Jul-11
VA0081311	CL2, TOTAL CONTACT			0.18			1-Aug-11	31-Aug-11
VA0081311	CL2, TOTAL CONTACT			0.32			1-Sep-11	30-Sep-11
VA0081311	CL2, TOTAL CONTACT			0.37			1-Oct-11	31-Oct-11
VA0081311	CL2, TOTAL CONTACT			0.41			1-Nov-11	30-Nov-11
VA0081311	CL2, TOTAL CONTACT			0.42			1-Dec-11	31-Dec-11
VA0081311	CL2, TOTAL CONTACT			0.0			1-Jan-12	31-Jan-12
VA0081311	CL2, TOTAL CONTACT			0.17			1-Feb-12	29-Feb-12
VA0081311	CL2, TOTAL FINAL				<0.1	<0.1	1-Dec-07	31-Dec-07
VA0081311	CL2, TOTAL FINAL				0.0	0.0	1-Jan-08	31-Jan-08
VA0081311	CL2, TOTAL FINAL				0.0081	0.028	1-Feb-08	29-Feb-08
VA0081311	CL2, TOTAL FINAL				0.0074	0.017	1-Mar-08	31-Mar-08
VA0081311	CL2, TOTAL FINAL				0.0080	<QL	1-Apr-08	30-Apr-08
VA0081311	CL2, TOTAL FINAL				0.0084	0.021	1-May-08	31-May-08
VA0081311	CL2, TOTAL FINAL				0.014	0.059	1-Jun-08	30-Jun-08
VA0081311	CL2, TOTAL FINAL				0.011	0.033	1-Jul-08	31-Jul-08
VA0081311	CL2, TOTAL FINAL				0.022	0.023	1-Aug-08	31-Aug-08
VA0081311	CL2, TOTAL FINAL				0.063	0.058	1-Sep-08	30-Sep-08
VA0081311	CL2, TOTAL FINAL				0.022	0.099	1-Oct-08	31-Oct-08
VA0081311	CL2, TOTAL FINAL				0.027	0.061	1-Nov-08	30-Nov-08
VA0081311	CL2, TOTAL FINAL				<QL	<QL	1-Dec-08	31-Dec-08
VA0081311	CL2, TOTAL FINAL				<QL	<QL	1-Jan-09	31-Jan-09
VA0081311	CL2, TOTAL FINAL				0.014	0.031	1-Feb-09	28-Feb-09
VA0081311	CL2, TOTAL FINAL				<QL	<QL	1-Mar-09	31-Mar-09
VA0081311	CL2, TOTAL FINAL				0.0071	<QL	1-Apr-09	30-Apr-09
VA0081311	CL2, TOTAL FINAL				0.031	0.071	1-May-09	31-May-09

Permit No	Parameter Description	QTYAVG	QTYMAX	CONCMIN	CONCAVG	CONCMAX	Start Date	End Date
VA0081311	CL2, TOTAL FINAL				0.042	0.077	1-Jun-09	30-Jun-09
VA0081311	CL2, TOTAL FINAL				0.017	0.027	1-Jul-09	31-Jul-09
VA0081311	CL2, TOTAL FINAL				0.0032	0.014	1-Aug-09	31-Aug-09
VA0081311	CL2, TOTAL FINAL				<QL	<QL	1-Sep-09	30-Sep-09
VA0081311	CL2, TOTAL FINAL				0.024	0.086	1-Oct-09	31-Oct-09
VA0081311	CL2, TOTAL FINAL				0.021	0.090	1-Nov-09	30-Nov-09
VA0081311	CL2, TOTAL FINAL				0.031	0.050	1-Dec-09	31-Dec-09
VA0081311	CL2, TOTAL FINAL				0.019	0.067	1-Jan-10	31-Jan-10
VA0081311	CL2, TOTAL FINAL				0.0079	0.031	1-Feb-10	28-Feb-10
VA0081311	CL2, TOTAL FINAL				0.016	0.037	1-Mar-10	31-Mar-10
VA0081311	CL2, TOTAL FINAL				<QL	<QL	1-Apr-10	30-Apr-10
VA0081311	CL2, TOTAL FINAL				<QL	<QL	1-May-10	31-May-10
VA0081311	CL2, TOTAL FINAL				0.0043	0.019	1-Jun-10	30-Jun-10
VA0081311	CL2, TOTAL FINAL				0.0074	0.033	1-Jul-10	31-Jul-10
VA0081311	CL2, TOTAL FINAL				<QL	<QL	1-Aug-10	31-Aug-10
VA0081311	CL2, TOTAL FINAL				<QL	<QL	1-Sep-10	30-Sep-10
VA0081311	CL2, TOTAL FINAL				<QL	<QL	1-Oct-10	31-Oct-10
VA0081311	CL2, TOTAL FINAL				0.017	<QL	1-Nov-10	30-Nov-10
VA0081311	CL2, TOTAL FINAL				0.047	0.12	1-Dec-10	31-Dec-10
VA0081311	CL2, TOTAL FINAL				0.085	0.12	1-Jan-11	31-Jan-11
VA0081311	CL2, TOTAL FINAL				0.082	0.16	1-Feb-11	28-Feb-11
VA0081311	CL2, TOTAL FINAL				0.055	0.11	1-Mar-11	31-Mar-11
VA0081311	CL2, TOTAL FINAL				0.0057	0.024	1-Apr-11	30-Apr-11
VA0081311	CL2, TOTAL FINAL				0.0055	0.024	1-May-11	31-May-11
VA0081311	CL2, TOTAL FINAL				0.0070	0.014	1-Jun-11	30-Jun-11
VA0081311	CL2, TOTAL FINAL				<QL	<QL	1-Jul-11	31-Jul-11
VA0081311	CL2, TOTAL FINAL				<QL	<QL	1-Aug-11	31-Aug-11
VA0081311	CL2, TOTAL FINAL				0.019	0.026	1-Sep-11	30-Sep-11
VA0081311	CL2, TOTAL FINAL				0.020	0.070	1-Oct-11	31-Oct-11
VA0081311	CL2, TOTAL FINAL				0.0073	0.031	1-Nov-11	30-Nov-11
VA0081311	CL2, TOTAL FINAL				0.017	0.027	1-Dec-11	31-Dec-11
VA0081311	CL2, TOTAL FINAL				<QL	<QL	1-Jan-12	31-Jan-12
VA0081311	CL2, TOTAL FINAL				0.047	0.12	1-Feb-12	29-Feb-12
VA0081311	COLIFORM, FECAL				3		1-Dec-07	31-Dec-07
VA0081311	COLIFORM, FECAL				3		1-Jan-08	31-Jan-08
VA0081311	COLIFORM, FECAL				4		1-Feb-08	29-Feb-08
VA0081311	COLIFORM, FECAL				22		1-Mar-08	31-Mar-08
VA0081311	COLIFORM, FECAL				9		1-Apr-08	30-Apr-08
VA0081311	COLIFORM, FECAL				9		1-May-08	31-May-08
VA0081311	COLIFORM, FECAL				6		1-Jun-08	30-Jun-08
VA0081311	COLIFORM, FECAL				3		1-Jul-08	31-Jul-08
VA0081311	COLIFORM, FECAL				6		1-Aug-08	31-Aug-08
VA0081311	COLIFORM, FECAL				6		1-Sep-08	30-Sep-08
VA0081311	COLIFORM, FECAL				4		1-Oct-08	31-Oct-08
VA0081311	COLIFORM, FECAL				10		1-Nov-08	30-Nov-08
VA0081311	COLIFORM, FECAL				11		1-Dec-08	31-Dec-08
VA0081311	COLIFORM, FECAL				3		1-Jan-09	31-Jan-09
VA0081311	COLIFORM, FECAL				1		1-Feb-09	28-Feb-09
VA0081311	COLIFORM, FECAL				1		1-Mar-09	31-Mar-09
VA0081311	COLIFORM, FECAL				3		1-Apr-09	30-Apr-09
VA0081311	COLIFORM, FECAL				4		1-May-09	31-May-09
VA0081311	COLIFORM, FECAL				7		1-Jun-09	30-Jun-09
VA0081311	COLIFORM, FECAL				2		1-Jul-09	31-Jul-09
VA0081311	COLIFORM, FECAL				12		1-Aug-09	31-Aug-09
VA0081311	COLIFORM, FECAL				16		1-Sep-09	30-Sep-09
VA0081311	COLIFORM, FECAL				7		1-Oct-09	31-Oct-09
VA0081311	COLIFORM, FECAL				30		1-Nov-09	30-Nov-09
VA0081311	COLIFORM, FECAL				8		1-Dec-09	31-Dec-09
VA0081311	COLIFORM, FECAL				7		1-Jan-10	31-Jan-10
VA0081311	COLIFORM, FECAL				2		1-Feb-10	28-Feb-10

Permit No	Parameter Description	QTYAVG	QTYMAX	CONCMIN	CONCAVG	CONCMAX	Start Date	End Date
VA0081311	COLIFORM, FECAL				9		1-Mar-10	31-Mar-10
VA0081311	COLIFORM, FECAL				8		1-Apr-10	30-Apr-10
VA0081311	COLIFORM, FECAL				8		1-May-10	31-May-10
VA0081311	COLIFORM, FECAL				11		1-Jun-10	30-Jun-10
VA0081311	COLIFORM, FECAL				6		1-Jul-10	31-Jul-10
VA0081311	COLIFORM, FECAL				4		1-Aug-10	31-Aug-10
VA0081311	COLIFORM, FECAL				12		1-Sep-10	30-Sep-10
VA0081311	COLIFORM, FECAL				18		1-Oct-10	31-Oct-10
VA0081311	COLIFORM, FECAL				7		1-Nov-10	30-Nov-10
VA0081311	COLIFORM, FECAL				1		1-Dec-10	31-Dec-10
VA0081311	COLIFORM, FECAL				4		1-Jan-11	31-Jan-11
VA0081311	COLIFORM, FECAL				3		1-Feb-11	28-Feb-11
VA0081311	COLIFORM, FECAL				1		1-Mar-11	31-Mar-11
VA0081311	COLIFORM, FECAL				1		1-Apr-11	30-Apr-11
VA0081311	COLIFORM, FECAL				1		1-May-11	31-May-11
VA0081311	COLIFORM, FECAL				2		1-Jun-11	30-Jun-11
VA0081311	COLIFORM, FECAL				3		1-Jul-11	31-Jul-11
VA0081311	COLIFORM, FECAL				2		1-Aug-11	31-Aug-11
VA0081311	COLIFORM, FECAL				2		1-Sep-11	30-Sep-11
VA0081311	COLIFORM, FECAL				1		1-Oct-11	31-Oct-11
VA0081311	COLIFORM, FECAL				1		1-Nov-11	30-Nov-11
VA0081311	COLIFORM, FECAL				1		1-Dec-11	31-Dec-11
VA0081311	COLIFORM, FECAL				1		1-Jan-12	31-Jan-12
VA0081311	COLIFORM, FECAL				1		1-Feb-12	29-Feb-12
VA0081311	ENTEROCOCCI				1		1-Jul-08	31-Jul-08
VA0081311	ENTEROCOCCI				2		1-Aug-08	31-Aug-08
VA0081311	ENTEROCOCCI				1		1-Sep-08	30-Sep-08
VA0081311	ENTEROCOCCI				1		1-Oct-08	31-Oct-08
VA0081311	ENTEROCOCCI				2		1-Nov-08	30-Nov-08
VA0081311	ENTEROCOCCI				2		1-Dec-08	31-Dec-08
VA0081311	ENTEROCOCCI				1		1-Jan-09	31-Jan-09
VA0081311	ENTEROCOCCI				1		1-Feb-09	28-Feb-09
VA0081311	ENTEROCOCCI				2		1-Mar-09	31-Mar-09
VA0081311	ENTEROCOCCI				2		1-Apr-09	30-Apr-09
VA0081311	ENTEROCOCCI				1		1-May-09	31-May-09
VA0081311	ENTEROCOCCI				2		1-Jun-09	30-Jun-09
VA0081311	ENTEROCOCCI				1		1-Jul-09	31-Jul-09
VA0081311	ENTEROCOCCI				1		1-Aug-09	31-Aug-09
VA0081311	ENTEROCOCCI				5		1-Sep-09	30-Sep-09
VA0081311	ENTEROCOCCI				4		1-Oct-09	31-Oct-09
VA0081311	ENTEROCOCCI				2		1-Nov-09	30-Nov-09
VA0081311	ENTEROCOCCI				2		1-Dec-09	31-Dec-09
VA0081311	ENTEROCOCCI				4		1-Jan-10	31-Jan-10
VA0081311	ENTEROCOCCI				1		1-Feb-10	28-Feb-10
VA0081311	ENTEROCOCCI				2		1-Mar-10	31-Mar-10
VA0081311	ENTEROCOCCI				3		1-Apr-10	30-Apr-10
VA0081311	ENTEROCOCCI				2		1-May-10	31-May-10
VA0081311	ENTEROCOCCI				2		1-Jun-10	30-Jun-10
VA0081311	ENTEROCOCCI				3		1-Jul-10	31-Jul-10
VA0081311	ENTEROCOCCI				2		1-Aug-10	31-Aug-10
VA0081311	ENTEROCOCCI				4		1-Sep-10	30-Sep-10
VA0081311	ENTEROCOCCI				3		1-Oct-10	31-Oct-10
VA0081311	ENTEROCOCCI				2		1-Nov-10	30-Nov-10
VA0081311	ENTEROCOCCI				1		1-Dec-10	31-Dec-10
VA0081311	ENTEROCOCCI				2		1-Jan-11	31-Jan-11
VA0081311	ENTEROCOCCI				2		1-Feb-11	28-Feb-11
VA0081311	ENTEROCOCCI				1		1-Mar-11	31-Mar-11
VA0081311	ENTEROCOCCI				1		1-Apr-11	30-Apr-11
VA0081311	ENTEROCOCCI				1		1-May-11	31-May-11
VA0081311	ENTEROCOCCI				1		1-Jun-11	30-Jun-11

Permit No	Parameter Description	QTYAVG	QTYMAX	CONCMIN	CONCAVG	CONCMAX	Start Date	End Date
VA0081311	ENTEROCOCCI				2		1-Jul-11	31-Jul-11
VA0081311	ENTEROCOCCI				1		1-Aug-11	31-Aug-11
VA0081311	ENTEROCOCCI				1		1-Sep-11	30-Sep-11
VA0081311	ENTEROCOCCI				1		1-Oct-11	31-Oct-11
VA0081311	ENTEROCOCCI				1		1-Nov-11	30-Nov-11
VA0081311	ENTEROCOCCI				1		1-Dec-11	31-Dec-11
VA0081311	ENTEROCOCCI				1		1-Jan-12	31-Jan-12
VA0081311	ENTEROCOCCI				1		1-Feb-12	29-Feb-12
VA0081311	FLOW	9.29	11.48				1-Dec-07	31-Dec-07
VA0081311	FLOW	10.20	11.51				1-Jan-08	31-Jan-08
VA0081311	FLOW	11.53	13.16				1-Feb-08	29-Feb-08
VA0081311	FLOW	11.74	15.37				1-Mar-08	31-Mar-08
VA0081311	FLOW	12.78	19.38				1-Apr-08	30-Apr-08
VA0081311	FLOW	11.48	13.58				1-May-08	31-May-08
VA0081311	FLOW	9.57	10.62				1-Jun-08	30-Jun-08
VA0081311	FLOW	9.18	9.92				1-Jul-08	31-Jul-08
VA0081311	FLOW	8.81	9.39				1-Aug-08	31-Aug-08
VA0081311	FLOW	9.24	13.68				1-Sep-08	30-Sep-08
VA0081311	FLOW	9.27	10.72				1-Oct-08	31-Oct-08
VA0081311	FLOW	9.64	12.49				1-Nov-08	30-Nov-08
VA0081311	FLOW	11.34	16.77				1-Dec-08	31-Dec-08
VA0081311	FLOW	10.80	11.86				1-Jan-09	31-Jan-09
VA0081311	FLOW	10.19	11.23				1-Feb-09	28-Feb-09
VA0081311	FLOW	14.16	18.35				1-Mar-09	31-Mar-09
VA0081311	FLOW	12.05	13.64				1-Apr-09	30-Apr-09
VA0081311	FLOW	12.02	15.22				1-May-09	31-May-09
VA0081311	FLOW	11.16	14.82				1-Jun-09	30-Jun-09
VA0081311	FLOW	9.47	10.00				1-Jul-09	31-Jul-09
VA0081311	FLOW	10.87	13.39				1-Aug-09	31-Aug-09
VA0081311	FLOW	11.79	17.61				1-Sep-09	30-Sep-09
VA0081311	FLOW	9.98	11.51				1-Oct-09	31-Oct-09
VA0081311	FLOW	14.30	20.62				1-Nov-09	30-Nov-09
VA0081311	FLOW	16.62	20.03				1-Dec-09	31-Dec-09
VA0081311	FLOW	14.44	17.56				1-Jan-10	31-Jan-10
VA0081311	FLOW	15.58	20.48				1-Feb-10	28-Feb-10
VA0081311	FLOW	14.72	19.13				1-Mar-10	31-Mar-10
VA0081311	FLOW	11.98	15.49				1-Apr-10	30-Apr-10
VA0081311	FLOW	10.81	14.25				1-May-10	31-May-10
VA0081311	FLOW	9.71	10.61				1-Jun-10	30-Jun-10
VA0081311	FLOW	9.02	10.90				1-Jul-10	31-Jul-10
VA0081311	FLOW	9.10	9.66				1-Aug-10	31-Aug-10
VA0081311	FLOW	9.16	1898				1-Sep-10	30-Sep-10
VA0081311	FLOW	11.63	20.03				1-Oct-10	31-Oct-10
VA0081311	FLOW	10.18	11.25				1-Nov-10	30-Nov-10
VA0081311	FLOW	10.09	11.24				1-Dec-10	31-Dec-10
VA0081311	FLOW	12.63	15.54				1-Jan-11	31-Jan-11
VA0081311	FLOW	12.22	14.17				1-Feb-11	28-Feb-11
VA0081311	FLOW	12.42	14.57				1-Mar-11	31-Mar-11
VA0081311	FLOW	11.60	13.04				1-Apr-11	30-Apr-11
VA0081311	FLOW	10.67	11.42				1-May-11	31-May-11
VA0081311	FLOW	10.62	11.68				1-Jun-11	30-Jun-11
VA0081311	FLOW	11.66	22.69				1-Jul-11	31-Jul-11
VA0081311	FLOW	11.56	21.37				1-Aug-11	31-Aug-11
VA0081311	FLOW	12.11	16.22				1-Sep-11	30-Sep-11
VA0081311	FLOW	10.34	12.53				1-Oct-11	31-Oct-11
VA0081311	FLOW	10.29	11.29				1-Nov-11	30-Nov-11
VA0081311	FLOW	9.80	10.35				1-Dec-11	31-Dec-11
VA0081311	FLOW	9.79	10.64				1-Jan-12	31-Jan-12
VA0081311	FLOW	10.63	12.28				1-Feb-12	29-Feb-12
VA0081311	NITROGEN, TOTAL (AS N)	704	810		19	24	1-Dec-07	31-Dec-07

Permit No	Parameter Description	QTYAVG	QTYMAX	CONCMIN	CONCAVG	CONCMAX	Start Date	End Date
VA0081311	NITROGEN, TOTAL (AS N)	779	837		20	19	1-Jan-08	31-Jan-08
VA0081311	NITROGEN, TOTAL (AS N)				3.8		1-Nov-11	30-Nov-11
VA0081311	NITROGEN, TOTAL (AS N)				4.3		1-Dec-11	31-Dec-11
VA0081311	NITROGEN, TOTAL (AS N)				4.8		1-Jan-12	31-Jan-12
VA0081311	NITROGEN, TOTAL (AS N)				4.4		1-Feb-12	29-Feb-12
VA0081311	TN (AS N) (YEAR-TO-DATE)				4.8		1-Jan-12	31-Jan-12
VA0081311	TN (AS N) (YEAR-TO-DATE)				4.6		1-Feb-12	29-Feb-12
VA0081311	PH			6.2		7.0	1-Dec-07	31-Dec-07
VA0081311	PH			6.5		7.2	1-Jan-08	31-Jan-08
VA0081311	PH			6.6		7.1	1-Feb-08	29-Feb-08
VA0081311	PH			6.3		7.0	1-Mar-08	31-Mar-08
VA0081311	PH			6.5		7.0	1-Apr-08	30-Apr-08
VA0081311	PH			6.7		7.0	1-May-08	31-May-08
VA0081311	PH			6.4		6.9	1-Jun-08	30-Jun-08
VA0081311	PH			6.1		6.9	1-Jul-08	31-Jul-08
VA0081311	PH			6.2		6.8	1-Aug-08	31-Aug-08
VA0081311	PH			6.1		8.2	1-Sep-08	30-Sep-08
VA0081311	PH			6.1		6.9	1-Oct-08	31-Oct-08
VA0081311	PH			6.2		6.8	1-Nov-08	30-Nov-08
VA0081311	PH			6.3		6.9	1-Dec-08	31-Dec-08
VA0081311	PH			6.5		6.8	1-Jan-09	31-Jan-09
VA0081311	PH			6.4		6.8	1-Feb-09	28-Feb-09
VA0081311	PH			6.5		7.0	1-Mar-09	31-Mar-09
VA0081311	PH			6.5		6.8	1-Apr-09	30-Apr-09
VA0081311	PH			6.5		7.0	1-May-09	31-May-09
VA0081311	PH			6.3		6.8	1-Jun-09	30-Jun-09
VA0081311	PH			6.2		7.0	1-Jul-09	31-Jul-09
VA0081311	PH			6.4		7.0	1-Aug-09	31-Aug-09
VA0081311	PH			6.5		7.1	1-Sep-09	30-Sep-09
VA0081311	PH			6.5		6.9	1-Oct-09	31-Oct-09
VA0081311	PH			6.5		7.0	1-Nov-09	30-Nov-09
VA0081311	PH			6.2		6.9	1-Dec-09	31-Dec-09
VA0081311	PH			6.3		6.9	1-Jan-10	31-Jan-10
VA0081311	PH			6.5		7.0	1-Feb-10	28-Feb-10
VA0081311	PH			6.4		7.0	1-Mar-10	31-Mar-10
VA0081311	PH			6.1		7.1	1-Apr-10	30-Apr-10
VA0081311	PH			6.3		7.1	1-May-10	31-May-10
VA0081311	PH			6.4		6.9	1-Jun-10	30-Jun-10
VA0081311	PH			6.3		6.9	1-Jul-10	31-Jul-10
VA0081311	PH			6.3		6.8	1-Aug-10	31-Aug-10
VA0081311	PH			6.1		6.9	1-Sep-10	30-Sep-10
VA0081311	PH			6.3		7.0	1-Oct-10	31-Oct-10
VA0081311	PH			6.3		7.0	1-Nov-10	30-Nov-10
VA0081311	PH			6.3		7.5	1-Dec-10	31-Dec-10
VA0081311	PH			6.0		7.2	1-Jan-11	31-Jan-11
VA0081311	PH			6.7		7.2	1-Feb-11	28-Feb-11
VA0081311	PH			6.2		7.6	1-Mar-11	31-Mar-11
VA0081311	PH			7.1		7.6	1-Apr-11	30-Apr-11
VA0081311	PH			7.1		7.6	1-May-11	31-May-11
VA0081311	PH			7.0		7.5	1-Jun-11	30-Jun-11
VA0081311	PH			6.8		7.4	1-Jul-11	31-Jul-11
VA0081311	PH			6.8		7.4	1-Aug-11	31-Aug-11
VA0081311	PH			6.6		7.6	1-Sep-11	30-Sep-11
VA0081311	PH			7.0		7.6	1-Oct-11	31-Oct-11
VA0081311	PH			6.5		7.5	1-Nov-11	30-Nov-11
VA0081311	PH			6.8		7.7	1-Dec-11	31-Dec-11
VA0081311	PH			6.7		7.4	1-Jan-12	31-Jan-12
VA0081311	PH			6.8		7.4	1-Feb-12	29-Feb-12
VA0081311	TP - ANNUAL AVERAGE (MG/L)				0.61		1-Dec-08	31-Dec-08
VA0081311	TP - ANNUAL AVERAGE (MG/L)				0.54		1-Jan-09	31-Dec-09

Permit No	Parameter Description	QTYAVG	QTYMAX	CONCMIN	CONCAVG	CONCMAX	Start Date	End Date
VA0081311	TP - ANNUAL AVERAGE (MG/L)				0.53		1-Jan-10	31-Dec-10
VA0081311	TP - ANNUAL AVERAGE (MG/L)				0.48		1-Jan-11	31-Dec-11
VA0081311	TP (AS P)	27	36		1	1	1-Dec-07	31-Dec-07
VA0081311	TP (AS P)	33	41		1	1	1-Jan-08	31-Jan-08
VA0081311	TP (AS P)				0.61		1-Feb-08	29-Feb-08
VA0081311	TP (AS P)				0.81		1-Mar-08	31-Mar-08
VA0081311	TP (AS P)				0.55		1-Apr-08	30-Apr-08
VA0081311	TP (AS P)				0.64		1-May-08	31-May-08
VA0081311	TP (AS P)				0.58		1-Jun-08	30-Jun-08
VA0081311	TP (AS P)				0.60		1-Jul-08	31-Jul-08
VA0081311	TP (AS P)				0.79		1-Aug-08	31-Aug-08
VA0081311	TP (AS P)				0.54		1-Sep-08	30-Sep-08
VA0081311	TP (AS P)				0.45		1-Oct-08	31-Oct-08
VA0081311	TP (AS P)				0.57		1-Nov-08	30-Nov-08
VA0081311	TP (AS P)				0.35		1-Dec-08	31-Dec-08
VA0081311	TP (AS P)				0.44		1-Jan-09	31-Jan-09
VA0081311	TP (AS P)				0.38		1-Feb-09	28-Feb-09
VA0081311	TP (AS P)				0.45		1-Mar-09	31-Mar-09
VA0081311	TP (AS P)				0.62		1-Apr-09	30-Apr-09
VA0081311	TP (AS P)				0.88		1-May-09	31-May-09
VA0081311	TP (AS P)				0.68		1-Jun-09	30-Jun-09
VA0081311	TP (AS P)				0.54		1-Jul-09	31-Jul-09
VA0081311	TP (AS P)				0.47		1-Aug-09	31-Aug-09
VA0081311	TP (AS P)				0.55		1-Sep-09	30-Sep-09
VA0081311	TP (AS P)				0.60		1-Oct-09	31-Oct-09
VA0081311	TP (AS P)				0.42		1-Nov-09	30-Nov-09
VA0081311	TP (AS P)				0.44		1-Dec-09	31-Dec-09
VA0081311	TP (AS P)				0.34		1-Jan-10	31-Jan-10
VA0081311	TP (AS P)				0.28		1-Feb-10	28-Feb-10
VA0081311	TP (AS P)				0.45		1-Mar-10	31-Mar-10
VA0081311	TP (AS P)				0.64		1-Apr-10	30-Apr-10
VA0081311	TP (AS P)				0.63		1-May-10	31-May-10
VA0081311	TP (AS P)				0.67		1-Jun-10	30-Jun-10
VA0081311	TP (AS P)				0.60		1-Jul-10	31-Jul-10
VA0081311	TP (AS P)				0.51		1-Aug-10	31-Aug-10
VA0081311	TP (AS P)				0.59		1-Sep-10	30-Sep-10
VA0081311	TP (AS P)				0.59		1-Oct-10	31-Oct-10
VA0081311	TP (AS P)				0.60		1-Nov-10	30-Nov-10
VA0081311	TP (AS P)				0.47		1-Dec-10	31-Dec-10
VA0081311	TP (AS P)				0.59		1-Jan-11	31-Jan-11
VA0081311	TP (AS P)				0.71		1-Feb-11	28-Feb-11
VA0081311	TP (AS P)				0.47		1-Mar-11	31-Mar-11
VA0081311	TP (AS P)				0.64		1-Apr-11	30-Apr-11
VA0081311	TP (AS P)				0.48		1-May-11	31-May-11
VA0081311	TP (AS P)				0.60		1-Jun-11	30-Jun-11
VA0081311	TP (AS P)				0.54		1-Jul-11	31-Jul-11
VA0081311	TP (AS P)				0.50		1-Aug-11	31-Aug-11
VA0081311	TP (AS P)				0.49		1-Sep-11	30-Sep-11
VA0081311	TP (AS P)				0.31		1-Oct-11	31-Oct-11
VA0081311	TP (AS P)				0.15		1-Nov-11	30-Nov-11
VA0081311	TP (AS P)				0.24		1-Dec-11	31-Dec-11
VA0081311	TP (AS P)				0.62		1-Jan-12	31-Jan-12
VA0081311	TP (AS P)				0.60		1-Feb-12	29-Feb-12
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.73		1-Feb-08	29-Feb-08
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.81		1-Mar-08	31-Mar-08
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.71		1-Apr-08	30-Apr-08
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.69		1-May-08	31-May-08
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.67		1-Jun-08	30-Jun-08
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.66		1-Jul-08	31-Jul-08
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.68		1-Aug-08	31-Aug-08

Permit No	Parameter Description	QTYAVG	QTYMAX	CONCMIN	CONCAVG	CONCMAX	Start Date	End Date
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.66		1-Sep-08	30-Sep-08
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.64		1-Oct-08	31-Oct-08
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.63		1-Nov-08	30-Nov-08
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.61		1-Dec-08	31-Dec-08
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.44		1-Jan-09	31-Jan-09
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.41		1-Feb-09	28-Feb-09
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.42		1-Mar-09	31-Mar-09
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.47		1-Apr-09	30-Apr-09
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.55		1-May-09	31-May-09
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.57		1-Jun-09	30-Jun-09
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.57		1-Jul-09	31-Jul-09
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.56		1-Aug-09	31-Aug-09
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.56		1-Sep-09	30-Sep-09
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.56		1-Oct-09	31-Oct-09
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.55		1-Nov-09	30-Nov-09
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.54		1-Dec-09	31-Dec-09
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.34		1-Jan-10	31-Jan-10
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.31		1-Feb-10	28-Feb-10
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.35		1-Mar-10	31-Mar-10
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.42		1-Apr-10	30-Apr-10
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.47		1-May-10	31-May-10
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.50		1-Jun-10	30-Jun-10
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.51		1-Jul-10	31-Jul-10
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.51		1-Aug-10	31-Aug-10
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.52		1-Sep-10	30-Sep-10
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.53		1-Oct-10	31-Oct-10
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.54		1-Nov-10	30-Nov-10
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.53		1-Dec-10	31-Dec-10
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.59		1-Jan-11	31-Jan-11
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.65		1-Feb-11	28-Feb-11
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.59		1-Mar-11	31-Mar-11
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.60		1-Apr-11	30-Apr-11
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.58		1-May-11	31-May-11
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.58		1-Jun-11	30-Jun-11
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.57		1-Jul-11	31-Jul-11
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.57		1-Aug-11	31-Aug-11
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.56		1-Sep-11	30-Sep-11
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.53		1-Oct-11	31-Oct-11
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.50		1-Nov-11	30-Nov-11
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.48		1-Dec-11	31-Dec-11
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.62		1-Jan-12	31-Jan-12
VA0081311	TP (AS P) (YEAR-TO-DATE)				0.61		1-Feb-12	29-Feb-12
VA0081311	TSS	184	219		5	6	1-Dec-07	31-Dec-07
VA0081311	TSS	206	224		5	6	1-Jan-08	31-Jan-08
VA0081311	TSS	260	290		5.9	6.3	1-Feb-08	29-Feb-08
VA0081311	TSS	305	405		6.8	9.0	1-Mar-08	31-Mar-08
VA0081311	TSS	237	405		4.8	7.0	1-Apr-08	30-Apr-08
VA0081311	TSS	107	156		2.5	3.6	1-May-08	31-May-08
VA0081311	TSS	84	122		2.4	3.5	1-Jun-08	30-Jun-08
VA0081311	TSS	112	163		3.2	4.7	1-Jul-08	31-Jul-08
VA0081311	TSS	131	207		3.9	6.0	1-Aug-08	31-Aug-08
VA0081311	TSS	131	158		3.8	4.7	1-Sep-08	30-Sep-08
VA0081311	TSS	151	248		4.3	6.9	1-Oct-08	31-Oct-08
VA0081311	TSS	359	338		9.3	9.1	1-Nov-08	30-Nov-08
VA0081311	TSS	289	421		6.8	8.8	1-Dec-08	31-Dec-08
VA0081311	TSS	287	361		7.0	8.8	1-Jan-09	31-Jan-09
VA0081311	TSS	183	281		4.7	7.0	1-Feb-09	28-Feb-09
VA0081311	TSS	373	484		7.0	8.8	1-Mar-09	31-Mar-09
VA0081311	TSS	240	272		5.2	5.7	1-Apr-09	30-Apr-09
VA0081311	TSS	226	343		4.9	6.7	1-May-09	31-May-09

Permit No	Parameter Description	QTYAVG	QTYMAX	CONCMIN	CONCAVG	CONCMAX	Start Date	End Date
VA0081311	TSS	150	182		3.7	4.4	1-Jun-09	30-Jun-09
VA0081311	TSS	164	190		4.6	5.3	1-Jul-09	31-Jul-09
VA0081311	TSS	168	194		4.1	4.5	1-Aug-09	31-Aug-09
VA0081311	TSS	153	273		3.3	5.1	1-Sep-09	30-Sep-09
VA0081311	TSS	194	273		5.1	7.2	1-Oct-09	31-Oct-09
VA0081311	TSS	242	309		4.5	5.6	1-Nov-09	30-Nov-09
VA0081311	TSS	419	466		6.9	7.2	1-Dec-09	31-Dec-09
VA0081311	TSS	337	619		6.0	10	1-Jan-10	31-Jan-10
VA0081311	TSS	261	325		4.5	6.2	1-Feb-10	28-Feb-10
VA0081311	TSS	231	303		4.2	6.1	1-Mar-10	31-Mar-10
VA0081311	TSS	243	333		5.3	7.9	1-Apr-10	30-Apr-10
VA0081311	TSS	170	249		4.1	5.7	1-May-10	31-May-10
VA0081311	TSS	177	255		4.8	6.7	1-Jun-10	30-Jun-10
VA0081311	TSS	97	153		2.9	4.5	1-Jul-10	31-Jul-10
VA0081311	TSS	111	146		3.2	4.2	1-Aug-10	31-Aug-10
VA0081311	TSS	140	165		3.8	4.9	1-Sep-10	30-Sep-10
VA0081311	TSS	162	265		3.7	5.7	1-Oct-10	31-Oct-10
VA0081311	TSS	166	293		4.3	7.7	1-Nov-10	30-Nov-10
VA0081311	TSS	58	75		1.5	1.9	1-Dec-10	31-Dec-10
VA0081311	TSS	165	456		3.3	8.9	1-Jan-11	31-Jan-11
VA0081311	TSS	163	258		3.5	5.2	1-Feb-11	28-Feb-11
VA0081311	TSS	160	311		3.4	6.7	1-Mar-11	31-Mar-11
VA0081311	TSS	213	421		4.8	9.4	1-Apr-11	30-Apr-11
VA0081311	TSS	111	247		2.7	5.9	1-May-11	31-May-11
VA0081311	TSS	59	126		1.4	3.1	1-Jun-11	30-Jun-11
VA0081311	TSS	108	255		2.3	4.8	1-Jul-11	31-Jul-11
VA0081311	TSS	71	70		1.5	1.9	1-Aug-11	31-Aug-11
VA0081311	TSS	44	72		0.98	1.6	1-Sep-11	30-Sep-11
VA0081311	TSS	30	43		0.74	1.0	1-Oct-11	31-Oct-11
VA0081311	TSS	39	43		1.0	1.1	1-Nov-11	30-Nov-11
VA0081311	TSS	38	48		1.0	1.3	1-Dec-11	31-Dec-11
VA0081311	TSS	42	88		1.1	2.4	1-Jan-12	31-Jan-12
VA0081311	TSS	60	124		1.5	3.0	1-Feb-12	29-Feb-12

Data pulled from Discoverer 3/16/12
DDA

ATTACHMENT 7

SPECIAL CONDITIONS RATIONALE

VPDES PERMIT PROGRAM
LIST OF SPECIAL CONDITIONS RATIONALE

Name of Condition:

B. Additional Total Residual Chlorine (TRC) Limitations and Monitoring Requirements

Rationale: Required by Water Quality Standards, 9VAC 25-260-170, Fecal coliform bacteria; other waters. Also, 40 CFR 122.41(e) requires the permittee, at all times, to properly operate and maintain all facilities and systems of treatment in order to comply with the permit. This ensures proper operation of chlorination equipment to maintain adequate disinfection.

C. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1.a. Sludge Reopener

Rationale: Required by the VPDES Permit Regulation, 9 VAC 25-31-220 C., and 40 CFR 122.44 (c)(4), which note that all permits for domestic sewage treatment plants (including sludge-only facilities) include any applicable standard for sewage sludge use or disposal promulgated under section 405(d) of the Clean Water Act.

1.b. Water Quality Standards Reopener

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-220 D requires effluent limitations to be established which will contribute to the attainment or maintenance of water quality criteria.

1.c. Nutrient Reopener

Rationale: 9 VAC 25-40-70 A authorizes DEQ to include technology-based annual concentration limits in the permits of facilities that have installed nutrient control equipment, whether by new construction, expansion or upgrade. 9 VAC 25-31-390 A authorizes DEQ to modify VPDES permits to promulgate amended water quality standards.

1.d. Nutrient Removal Facilities Reopener

Rationale: 9 VAC 25-40-70 A authorizes DEQ to include technology-based annual concentration limits in the permits of facilities that have installed nutrient control equipment, whether by new construction, expansion or upgrade.

1.e. Total Maximum Daily Load (TMDL) Reopener

Rationale: For specified waters, section 303(d) of the Clean Water Act requires the development of total maximum daily loads necessary to achieve the applicable water quality standards. The TMDL must take into account seasonal variations and a margin of safety. In addition, section 62.1-44.19:7 of the State Water Control Law requires the development and implementation of plans to address impaired waters, including TMDLs. This condition allows for the permit to be either modified or, alternatively, revoked and reissued to incorporate the requirements of a TMDL once it is developed. In addition, the reopener recognizes that, in according to section 402(o)(1) of the Clean Water Act, limits and/or conditions may be either more or less stringent than those contained in this permit. Specifically, they can be relaxed if they are the result of a TMDL, basin plan or other wasteload allocation prepared under section 303 of the Act.

2. Licensed Operator Requirement

Rationale: The Permit Regulation, 9 VAC 25-31-200 D and Code of Virginia 54.1-2300 et. seq., Rules and Regulations for Waterworks and Wastewater Works Operators (18 VAC 160-20-10 et seq.) requires licensure of operators.

3. Reliability Class

Rationale: Required by Sewage Collection and Treatment Regulations, 12 VAC 5-581-20 and 120 for all municipal facilities.

4. CTC, CTO and O & M Manual Requirements

Rationale: Required by the State Water Control Law, Section 62.1-44.19; the Sewage Collection and Treatment Regulations (12 VAC 5-581 et seq); Section 401 of the Clean Water Act; 40 CFR 122.41(e); and the VPDES Permit Regulation (9 VAC-25-31-190E).
9 VAC 25-40-70 A authorizes DEQ to include technology-based annual concentration limits in the permits of facilities that have installed nutrient control equipment, whether by new construction, expansion or upgrade.

5. 95% Design Capacity Notification

Rationale: Required by the VPDES Permit Regulation, 9 VAC 25-31-200 B.2. for all POTW and PVOTW permits. Best professional judgment is used to apply this condition to other (private) municipal treatment facilities.

6. Quantification Levels Under Part I.A.

Rationale: States are authorized to establish monitoring methods and procedures to compile and analyze data on water quality, as per 40 CFR part 130, Water Quality Planning and Management, subpart 130.4.

7. Compliance Reporting Under Part I.A.

Rationale: Defines reporting requirements for toxic parameters with quantification levels and other limited parameters to ensure consistent, accurate reporting on submitted reports.

8. Effluent Monitoring Frequencies

Rationale: The incentive for reduced monitoring is an effort to reduce the cost of environmental compliance and to provide incentives to facilities which demonstrate outstanding performance and consistent compliance with their permits. Facilities which cannot comply with specific effluent parameters or have other related violations will not be eligible for this benefit. This is in conformance with Guidance Memorandum No. 98-2005 - Reduced Monitoring and EPA's proposed "Interim Guidance For Performance-Based Reduction of NPDES Permit Monitoring Frequencies" (EPA 833-B-96-001) published in April 1996.

9. Indirect Dischargers

Rationale: Required by VPDES Permit Regulation, 9 VAC 25-31-200 B.1. for POTWs and PVOTWs that receive waste from someone other than the owner of the treatment works.

10. Total Phosphorus/Total Nitrogen-Nutrient reporting calculations

Rationale: §62.1-44.19:13 of the Code of Virginia defines how annual nutrient loads are to be calculated; this is carried forward in 9 VAC 25-820-70. As annual concentrations (as opposed to loads) are limited in the individual permit, this special condition is intended to reconcile the reporting calculations between the permit programs, as the permittee is collecting a single set of samples for the purpose of ascertaining compliance with two permits.

11. Suspension of concentration limits for E3/E4 facilities

Rationale: 9 VAC 25-40-70 B authorizes DEQ to approve an alternate compliance method to the technology-based effluent concentration limitations as required by subsection A of this section. Such alternate compliance method shall be incorporated into the permit of an Exemplary Environmental Enterprise (E3) facility or an Extraordinary Environmental Enterprise (E4) facility to allow the suspension of applicable technology-based effluent concentration limitations during the period the E3 or E4 facility has a fully implemented environmental management system that includes operation of installed nutrient removal technologies at the treatment efficiency levels for which they were designed.

12. Sludge Management Plan

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-420, and 40 CFR 503.1 specify the purpose and applicability for sludge management plans. The VPDES Permit Regulation, 9 VAC 25-31-100 J.4., also sets forth certain detailed information which must be included in a sludge management plan. The VPDES sewage sludge permit application form and its attachments constitute the sludge management plan and will be considered for approval with the VPDES permit. In addition, the Biosolids Use Regulation, 12 VAC 5-585-330 and 340, specifies the general purpose and control requirements for an O&M manual in order to facilitate proper O&M of the facilities to meet the requirements of the regulation.

D. PRETREATMENT

Rationale: The permit regulation, 9 VAC 25-31-10 et seq., Part VII, establishes the legal requirements for State, local government and industry to implement National Pretreatment Standards. The Pretreatment Standards are implemented to prevent POTW plant pass through, interference, violation of water quality standards or contamination of sewage sludge. The regulation requires POTWs with a total design flow greater than 5 MGD with significant or categorical industrial input to establish a Pretreatment Program. The regulation also may apply to POTWs with design flows less than 5 MGD if circumstances warrant control of industrial discharges.

ATTACHMENT 8

TOXICS MONITORING/TOXICS REDUCTION/ WET LIMIT RATIONALE

MEMORANDUM

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

TIDEWATER REGIONAL OFFICE

5636 Southern Boulevard Virginia Beach, VA 23462

SUBJECT: Toxics Management Program (TMP) for HRSD-York River STP (VA0081311)

TO: File

FROM: Deanna Austin

DATE: 3/16/12

COPIES:

HRSD-York River STP is a major municipal discharger (design flow 15 MGD) of treated domestic sewage. Discharge from outfall 001 to the York River will continue to be monitored for toxicity during this permit term by the Virginia Power Yorktown Facility.

VA Power-Yorktown (VA0004103) currently samples toxicity at their permitted outfall 002. The outfall is at the end of the discharge canal. HRSD currently discharges into the discharge canal before the sampling location for VA Power-Yorktown.

Because the discharge is monitored by VA Power-Yorktown, HRSD has not been monitoring for toxicity. The Department finds this acceptable since the data for VA Power Yorktown is available.

If in the future, there is any reason that VA Power-Yorktown does not sample for toxicity at outfall 002, the HRSD permit will need to be modified to include toxics monitoring.

ATTACHMENT 9

RECEIVING WATERS INFO./
TIER DETERMINATION/STORET DATA/
STREAM MODELING

303(d) LISTED SEGMENTS

TMDL Permit Review

Date: 3/7/2012

To: Jennifer Howell, TRO √ **JSH 3/12/2012**

Permit Writer: Deanna Austin

Facility: HRSD-York River STP

Permit Number: VA0081311

New or Renewal: Renewal

Permit Expiration Date: 1/27/2013

Waterbody ID: VAT F27 E (York River)-Outfall 001 VAT C07 E (Back Creek)

Topo Name: 065B Poquoson West

Facility Address 515 Back Creek Road Seaford, VA 23696

Receiving Stream:

Stream Name: York River-Outfall 001 This discharge to the Dominion Power Canal to the York River	
Click here to enter text.	
Stream Data Requested? Click here to enter text.	
Outfall #: 001	**Lat Lon: 37 12 55 76 27 31**
Stream Name (2): Back Creek All Stormwater Outfalls	
All stormwater outfalls are not monitored-No Exposure Certifications have been given	
Stream Data Requested? Click here to enter text.	
Outfall #: 002	**Lat Lon: 37 12 12 76 26 46**
Outfall #: 003	**Lat Lon: 37 12 18 76 26 48**
Outfall #: 005	**Lat Lon: 37 12 7 76 26 52**
Outfall #: 006	**Lat Lon:37 12 7 76 27 8**
Outfall # 007	**Lat Lon: 37 12 18 76 26 59**

Is there a design flow change? If yes give the change. No change

TMDL Review:

Has a TMDL been approved that includes the receiving stream?	
Yes, see notes below	
If yes, Include TMDL Name, Pollutant(s) and date of approval:	
1) Outfalls 001-003, 005-007: Chesapeake Bay TMDL EPA Approval 12/29/2010: nitrogen, phosphorous, TSS 2) Outfalls 002-003, 005-007: Total Maximum Daily Load Report for shellfish areas listed due to bacterial contamination – Poquoson River and Back Creek Approval 8/2/2006: Fecal coliform & enterococci	
Is the facility assigned a WLA from the TMDL?	**Yes, see notes below**
If Yes, what is the WLA?	
1) VA0081311 was listed in the Chesapeake Bay TMDL under Bay segments YRKPH and MOBPH as a significant discharger. This permit did receive an individual annual WLA, which is presented as both Edge of Stream (EOS) and Delivered Load (DEL): (Appendix Q) TN (lbs/yr): EOS 274,100; DEL 274,084.4 TP (lbs/yr): EOS 18,273; DEL 18,340.87 TSS (lbs/yr): EOS 1,370,502; DEL 1,260,000 2) Outfalls 002-003, 005-007 are located within the TMDL watershed boundary for the Shellfish TMDL report listed above. However, no WLA was assigned.	

Austin, Deanna (DEQ)

From: Brockenbrough, Allan (DEQ)
Sent: Wednesday, March 14, 2012 9:31 AM
To: Austin, Deanna (DEQ); Everton, Roger (DEQ)
Cc: Sauer, Mark (DEQ); Phillips, Gary (DEQ)
Subject: RE: WLA for HRSD York River STP Based on Chesapeake Bay TMDL

Deanna-

There is no disconnect between the TMDL and the VPDES permits. The TMDL includes load limits for the HRSD facilities and the GP requires that they meet those load limits in aggregate. The individual WLAs under the aggregate registrations are listed on the registration list for informational purposes only. The York River plant doesn't have to meet their individual WLA. The 3 HRSD York River plants only have to meet their aggregate delivered WLA (which includes the 4th WLA from Mathews CH).

As far as the concentration limits in the IP, they do not necessarily have to match the WLA. They have to match the capability of the technology installed at design flow. As I recall, the initial York River WWTF upgrade included denitrifying filters without a complete reconfiguration of the activated sludge portion of the plant to provide enhanced nutrient removal (ENR). HRSD was relying on being under the design flow to meet their TN WLA now with only a partial upgrade. The TP limit of 0.7 mg/l matches the WLA that was in effect when the plans were approved for the upgrade. The TMDL reduced the basis for the TP WLAs on the York from 0.7 mg/l to 0.4 mg/l and we have given the facilities until 2016 to meet the lower WLAs. The TP limit in the IP may change in the future if additional TP treatment is added or if an engineering evaluation indicates that the existing facilities are capable of meeting the lower limit.

Hope that helps. Give me a call if this still isn't clear.

Allan

From: Austin, Deanna (DEQ)
Sent: Wednesday, March 14, 2012 7:26 AM
To: Everton, Roger (DEQ)
Cc: Brockenbrough, Allan (DEQ); Sauer, Mark (DEQ)
Subject: FW: WLA for HRSD York River STP Based on Chesapeake Bay TMDL

I'm sending this to you too. The WLA in the bubble permit are 19, 315 lbs/yr TP (not sure if effective yet) a WLA of 33, 660 lbs/yr was effective 1/1/08 and 288,315 lbs/yr TN effective 1/1/11. As you can see, the WLA assigned to VA0081311 are lower than the bubble WLA which defeats the purpose of the nutrient GP. When I got this from Jen yesterday I called her to ask how it relates to the bubble and she did not know so I sent it on to Allan. I'm not sure what will come of this but I think this is another good example of a big disconnect between TMDLs and permits. This was the first that I had seen that a WLA had been specifically assigned to VA0081311 and there is no mention of the WLA assigned in VAN030052.

Deanna Austin
DEQ-TRO Water Permits
5636 Southern Blvd
Virginia Beach, VA 23462
Phone: 757-518-2008
Fax: 757-518-2009

From: Austin, Deanna (DEQ)
Sent: Tuesday, March 13, 2012 4:15 PM
To: Brockenbrough, Allan (DEQ)
Subject: WLA for HRSD York River STP Based on Chesapeake Bay TMDL

Is the facility assigned a WLA from the TMDL?	**Yes, see notes below**
If Yes, what is the WLA?	
1) VA0081311 was listed in the Chesapeake Bay TMDL under Bay segments YRKPH and MOBPH as a significant discharger. This permit did receive an individual annual WLA, which is presented as both Edge of Stream (EOS) and Delivered Load (DEL): (Appendix Q) TN (lbs/yr): EOS 274,100; DEL 274,084.4 TP (lbs/yr): EOS 18,273; DEL 18,340.87 TSS (lbs/yr): EOS 1,370,502; DEL 1,260,000 2) Outfalls 002-003, 005-007 are located within the TMDL watershed boundary for the Shellfish TMDL report listed above. However, no WLA was assigned.	

Allan,
I got the table above from our TMDL coordinator. I'm a little concerned how this relates to their VAN permit. They are under VAN03052. If I am calculating this correctly, the limits they have in their permit which were added based on the CTO for nutrient upgrades (0.70 mg/l for TP and 8.0 mg/l TN) would not meet the WLA in the Chesapeake Bay TMDL. Maybe I am missing something here but this does not appear to be good.

Deanna Austin
DEQ-TRO Water Permits
5636 Southern Blvd
Virginia Beach, VA 23462
Phone: 757-518-2008
Fax: 757-518-2009

Planning Permit Review

Date: 3/7/2012

To: Kristie Britt, TRO

Permit Writer: Deanna Austin

Facility: HRSD-York River STP

Permit Number: VA0081311

New or Renewal: Renewal

Permit Expiration Date: 1/27/2013

Waterbody ID: VAT F27 E (York River)-Outfall 001 VAT C07 E (Back Creek)

Topo Name: 065B Poquoson West

Facility Address 515 Back Creek Road Seaford, VA 23696

Receiving Stream:

Stream Name: York River-Outfall 001 This discharge to the Dominion Power Canal to the York River	
Stream Data Requested? No	
Outfall #: 001	**Lat Lon: 37 12 55 76 27 31**
Stream Name (2): Back Creek All Stormwater Outfalls	
All stormwater outfalls are not monitored-No Exposure Certifications have been given	
Stream Data Requested? No	
Outfall #: 002	**Lat Lon: 37 12 12 76 26 46**
Outfall #: 003	**Lat Lon: 37 12 18 76 26 48**
Outfall #: 005	**Lat Lon: 37 12 7 76 26 52**
Outfall #: 006	**Lat Lon:37 12 7 76 27 8**
Outfall # 007	**Lat Lon: 37 12 18 76 26 59**

Planning Review:

303 (d): Indicate Outfalls which discharge directly to an impaired (Category 5) stream segment	
Outfall 001 discharges to impaired 303d segment VAT-F27E_YRK02B00. Impairments are listed in Attachment 1.	
Stormwater Outfall 002-007 discharge to impaired segment VAT-C07E_BCK01A00.	
Tier Determination	
Tier	Outfall 001 discharges to the impaired Lower York River and therefore is a Tier 1. See Attachment 1.
Tier	No tier determination was made for the stormwater outfalls 002-007 since the outfalls have a No Exposure Certification and therefore will not be monitored or assigned limits.
Management Plan	
Is the facility Referenced in a Management Plan?	No

Review will be completed in 30 days of receipt of request.

Additional Comments:

KNB 3/9/2012

2010 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

York River Basin

Cause Group Code / Impaired Use	Water Name / Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
F24E-01-PH	Mattaponi River						
Aquatic Life	pH	5C	1.392			2010	2022
F24E-03-EBEN	Mattaponi River						
Aquatic Life	Estuarine Bioassessments	5A	2.826			2008	2020
F25E-01-BAC	Mattaponi River						
Recreation	Enterococcus	5A	2.535			2006	2018
F25R-01-BAC	Tastine Swamp and Little Tastine Swamp						
Recreation	Escherichia coli	5A			6.27	2010	2014
F25R-02-DO	Tastine Swamp						
Aquatic Life	Oxygen, Dissolved	5C			2.15	2010	2022
F25R-03-BAC	Tastine Swamp, UT						
Recreation	Escherichia coli	5A			2.40	2010	2022
F26E-01-PCB	York River Basin						
Fish Consumption	PCB in Fish Tissue	5A	0.397			2002	2014
	PCB in Fish Tissue	5A	57.413			2006	2018
F26E-05-BAC	York River						
Recreation	Enterococcus	5A	6.966			2006	2018
F26E-06-SF	Fox Creek						
Shellfishing	Fecal Coliform	5B	0.022			2006	2018
F26E-10-SF	Carter Creek						
Shellfishing	Fecal Coliform	5B	0.030			2004	2016
F26E-17-SF	Skimino Creek						
Shellfishing	Fecal Coliform	5B	0.191			1998	2010
F26E-18-SF	Taskinas Creek						
Shellfishing	Fecal Coliform	5B	0.028			1998	2010
F26E-19-SF	Ware Creek						
Shellfishing	Fecal Coliform	5B	0.083			1998	2010
F26E-20-SF	York River mainstem						
Shellfishing	Fecal Coliform	5B	5.882			2002	2014
F26E-21-SF	Bakers Creek						
Shellfishing	Fecal Coliform	5B	0.039			2002	2014
F26E-22-SF	Hockley Creek						
Shellfishing	Fecal Coliform	5B	0.058			2002	2014
F26E-23-SF	Bakers Creek						
Shellfishing	Fecal Coliform	5B	0.016			2008	2020
F26E-24-SF	Philbates Creek						
Shellfishing	Fecal Coliform	5B	0.013			2002	2014

2010 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

York River Basin

Cause Group Code / Impaired Use	Water Name / Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
YRKMH-DO-BAY	York Mesohaline						
Aquatic Life	Oxygen, Dissolved	5A	0.827			1998	2010
	Oxygen, Dissolved	5A	36.269			2006	2010
Open-Water Aquatic Life	Oxygen, Dissolved	5A	0.827			1998	2010
	Oxygen, Dissolved	5A	36.269			2006	2010
YRKMH-SAV-BAY	York Mesohaline						
Aquatic Life	Aquatic Plants (Macrophytes)	5A	37.096			2006	2010
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	5A	37.096			2006	2010
YRKPH-DO-BAY	Lower York River, Perrin River, Carter, Sarah, Felgates, King and Wormley Creeks and Unsegmented Estuaries in CBP segment YRKPH						
Aquatic Life	Oxygen, Dissolved	5A	11.706			2004	2010
	Oxygen, Dissolved	5A	13.933			2006	2010
	Oxygen, Dissolved	5A	0.629			2008	2010
	Oxygen, Dissolved	5A	0.392			2010	2010
YRKPH-EBEN-BAY	Lower York River, Perrin River, Carter, Sarah, Felgates, King and Wormley Creeks and Unsegmented Estuaries in CBP segment YRKPH						
Aquatic Life	Estuarine Bioassessments	5A	23.635			2004	2022
	Estuarine Bioassessments	5A	0.041			2006	2022
	Estuarine Bioassessments	5A	2.983			2010	2022
YRKPH-SAV-BAY	Lower York River, Perrin River, Carter, Sarah, Felgates, King and Wormley Creeks and Unsegmented Estuaries in CBP segment YRKPH						
Aquatic Life	Aquatic Plants (Macrophytes)	5A	26.659			2006	2010
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	5A	26.659			2006	2010

VA DEQ is transitioning from Fecal Coliform bacteria to Escherichia coli (fresh water) and Enterococci (salt water) for assessing the Recreation Use.

* Multiple listings are due to the same impairments for different uses and/or different initial listing dates for adjacent waters.

Appendix A - List of Impaired (Category 5) Waters in 2010

York River Basin

Cause Group Code: **F26E-01-PCB** **York River Basin**

Location: This cause encompasses the York River mainstem, from the Town of West Point (confluence of Mattaponi and Pamunkey Rivers) downstream to the mouth (line between Tue Point and Hog Island), and includes the tidal portions of the following tributaries: King Creek, Queen Creek and Wormley Creek.

City / County: Gloucester Co. James City Co. King And Queen Co. King William Co. New Kent Co.
Williamsburg City York Co.

Use(s): Fish Consumption

Cause(s) /
VA Category: PCB in Fish Tissue / 5A

The Fish Consumption Use is impaired based on the VDH fish consumption advisory for PCBs fish tissue contamination within the York River and select tidal tributaries, issued 12/13/04. During the 2004 IR cycle, a VDH Fish Consumption Restriction was issued for the York River, from the Town of West Point (confluence of Mattaponi and Pamunkey Rivers) downstream to the mouth (line between Tue Point and Hog Island), and includes the tidal portions of the following tributaries: King Creek, Queen Creek and Wormley Creek.

York River Basin **Fish Consumption**	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
PCB in Fish Tissue - Total Impaired Size by Water Type:	**57.809**		

Sources:

Source Unknown

Appendix A - List of Impaired (Category 5) Waters in 2010

York River Basin

Cause Group Code: **YRKPH-DO-BAY** **Lower York River, Perrin River, Carter, Sarah, Felgates, King and Wormley Creeks and Unsegmented Estuaries in CBP segment YRKPH**

Location: This cause encompasses the entirety of the Lower York River system CBP segment YRKPH.

City / County: Gloucester Co. York Co.

Use(s): Aquatic Life

Cause(s) / VA Category: Oxygen, Dissolved / 5A

The Aquatic Life and Open-Water Aquatic Life Use is impaired based on failure to meet the dissolved oxygen criteria for Open Water - Summer. The 30-day dissolved oxygen criteria for open water use failed for the 2008 assessment. There is insufficient data to assess remaining shorter-term dissolved oxygen criteria for this use. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Lower York River, Perrin River, Carter, Sarah, Felgates, King and Wormley Creeks and Unsegmented Estuaries in CBP segment YRKPH	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:	**26.659**		

Sources:

Agriculture	Atmospheric Deposition - Nitrogen	Industrial Point Source Discharge	Internal Nutrient Recycling
Loss of Riparian Habitat	Municipal Point Source Discharges	Sources Outside State Jurisdiction or Borders	Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Appendix A - List of Impaired (Category 5) Waters in 2010

York River Basin

Cause Group Code: **YRKPH-EBEN-BAY** **Lower York River, Perrin River, Carter, Sarah, Felgates, King and Wormley Creeks and Unsegmented Estuaries in CBP segment YRKPH**

Location: This cause encompasses the entirety of the Lower York River system CBP segment YRKPH.

City / County: Gloucester Co. York Co.

Use(s): Aquatic Life

Cause(s) / VA Category: Estuarine Bioassessments / 5A

The Aquatic Life Use is impaired based on the estuarine bioassessment data to meet the Ches Bay Estuarine Benthic criteria.

Lower York River, Perrin River, Carter, Sarah, Felgates, King and Wormley Creeks and Unsegmented Estuaries in CBP segment YRKPH	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Estuarine Bioassessments - Total Impaired Size by Water Type:	**26.659**		

Sources:

Source Unknown

Appendix A - List of Impaired (Category 5) Waters in 2010

York River Basin

Cause Group Code: **YRKPH-SAV-BAY** **Lower York River, Perrin River, Carter, Sarah, Felgates, King and Wormley Creeks and Unsegmented Estuaries in CBP segment YRKPH**

Location: This cause encompasses the entirety of the Lower York River system CBP segment YRKPH.

City / County: Gloucester Co. York Co.

Use(s): Aquatic Life Shallow-Water Submerged Aquatic Vegetation

Cause(s) / VA Category: Aquatic Plants (Macrophytes) / 5A

The Shallow-Water Submerged Aquatic Vegetation Use is impaired based on failure to meet the SAV acreage criteria.

Lower York River, Perrin River, Carter, Sarah, Felgates, King and Wormley Creeks and Unsegmented Estuaries in CBP segment YRKPH	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:	**26.659**		

Lower York River, Perrin River, Carter, Sarah, Felgates, King and Wormley Creeks and Unsegmented Estuaries in CBP segment YRKPH	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Shallow-Water Submerged Aquatic Vegetation			
Aquatic Plants (Macrophytes) - Total Impaired Size by Water Type:	**26.659**		

Sources:

Agriculture	Atmospheric Deposition - Nitrogen	Clean Sediments	Industrial Point Source Discharge
Internal Nutrient Recycling	Loss of Riparian Habitat	Municipal Point Source Discharges	Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders	Wet Weather Discharges (Non-Point Source)	Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)	

VIRGINIA

305(b)/303(d)

WATER QUALITY INTEGRATED REPORT

to

CONGRESS and the EPA ADMINISTRATOR

for the

PERIOD

January 1, 2003 to December 31, 2008

DEQ
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

DCR
Department of Conservation & Recreation
CONSERVING VIRGINIA'S NATURAL AND RECREATIONAL RESOURCES

Richmond, Virginia

November 2010

ATTACHMENT 10

TABLE III(a) AND TABLE III(b) - CHANGE SHEETS

TABLE III(a)

VPDES PERMIT PROGRAM
Permit Processing Change Sheet

1. Effluent Limits and Monitoring Schedule: (List any changes FROM PREVIOUS PERMIT and give a brief rationale for the changes).

OUTFALL NUMBER	PARAMETER CHANGED	MONITORING LIMITS CHANGED FROM / TO	EFFLUENT LIMITS CHANGED FROM / TO	RATIONALE	DATE & INITIAL

F OTHER CHANGES:	COMMENTS:	DATE & INITIAL
Added Stormwater outfalls 006 and 007. Removed outfall 004.		3/16/12 DDA
Changed boilerplate language to include the VELAP information		3/16/12 DDA
Changed special condition C.11 (Sludge Management Plan) to not have a VDH reference since they no longer are involved in the program.		3/16/12 DDA
QL changed for BOD from 5 mg/l to 2 mg/l.	Changed to be consistent with other HRSD permits.	3/16/12 DDA

TABLE III(b)

VPDES PERMIT PROGRAM
Permit Processing Change Sheet

1. Effluent Limits and Monitoring Schedule: (List any changes MADE DURING PERMIT PROCESS and give a brief rationale for the changes).

OUTFALL NUMBER	PARAMETER CHANGED	MONITORING LIMITS CHANGED FROM / TO	EFFLUENT LIMITS CHANGED FROM / TO	RATIONALE	DATE & INITIAL
001					

OTHER CHANGES FROM:	CHANGED TO:	DATE & INITIAL

ATTACHMENT 11

EPA PERMIT CHECKLIST

State "Transmittal Checklist" to Assist in Targeting Municipal and Industrial Individual NPDES Draft Permits for Review

Part I. State Draft Permit Submission Checklist

In accordance with the MOA established between the Commonwealth of Virginia and the United States Environmental Protection Agency, Region III, the Commonwealth submits the following draft National Pollutant Discharge Elimination System (NPDES) permit for Agency review and concurrence.

Facility Name: HRSD-York River STP

NPDES Permit Number: VA0081311

Permit Writer Name: Deanna Austin

Date: 3/16/12

Major [X] **Minor** [ ] **Industrial** [ ] **Municipal** [X]

I.A. Draft Permit Package Submittal Includes:	**Yes**	**No**	**N/A**
1. Permit Application?	X		
2. Complete Draft Permit (for renewal or first time permit – entire permit, including boilerplate information)?	X		
3. Copy of Public Notice?		X	
4. Complete Fact Sheet?	X		
5. A Priority Pollutant Screening to determine parameters of concern?	X		
6. A Reasonable Potential analysis showing calculated WQBELs?	X		
7. Dissolved Oxygen calculations?			X
8. Whole Effluent Toxicity Test summary and analysis?			X
9. Permit Rating Sheet for new or modified industrial facilities?			X

I.B. Permit/Facility Characteristics	**Yes**	**No**	**N/A**
1. Is this a new, or currently unpermitted facility?		X	
2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit?	X		
3. Does the fact sheet **or** permit contain a description of the wastewater treatment process?	X		
I.B. Permit/Facility Characteristics - cont.	**Yes**	**No**	**N/A**
4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit?		X	
5. Has there been any change in streamflow characteristics since the last permit was developed?		X	
6. Does the permit allow the discharge of new or increased loadings of any pollutants?		X	

7. Does the fact sheet **or** permit provide a description of the receiving water body(s) to which the facility discharges, including information on low/critical flow conditions and designated/existing uses?	X		
8. Does the facility discharge to a 303(d) listed water?	X		
a. Has a TMDL been developed and approved by EPA for the impaired water?	X		
b. Does the record indicate that the TMDL development is on the State priority list and will most likely be developed within the life of the permit?			X
c. Does the facility discharge a pollutant of concern identified in the TMDL or 303(d) listed water?	X		
9. Have any limits been removed, or are any limits less stringent, than those in the current permit?		X	
10. Does the permit authorize discharges of storm water?	X		
11. Has the facility substantially enlarged or altered its operation or substantially increased its flow or production?		X	
12. Are there any production-based, technology-based effluent limits in the permit?	X		
13. Do any water quality-based effluent limit calculations differ from the State's standard policies or procedures?		X	
14. Are any WQBELs based on an interpretation of narrative criteria?		X	
15. Does the permit incorporate any variances or other exceptions to the State's standards or regulations?		X	
16. Does the permit contain a compliance schedule for any limit or condition?		X	
17. Is there a potential impact to endangered/threatened species or their habitat by the facility's discharge(s)?		X	
18. Have impacts from the discharge(s) at downstream potable water supplies been evaluated?	X		
19. Is there any indication that there is significant public interest in the permit action proposed for this facility?		X	
20. Have previous permit, application, and fact sheet been examined?	X		

Part II. NPDES Draft Permit Checklist

Region III NPDES Permit Quality Checklist – for POTWs

(To be completed and included in the record only for POTWs)

II.A. Permit Cover Page/Administration	Yes	No	N/A
1. Does the fact sheet or permit describe the physical location of the facility, including latitude and longitude (not necessarily on permit cover page)?	X		
2. Does the permit contain specific authorization-to-discharge information (from where to where, by whom)?	X		

II.B. Effluent Limits - General Elements	Yes	No	N/A
1. Does the fact sheet describe the basis of final limits in the permit (e.g., that a comparison of technology and water quality-based limits was performed, and the most stringent limit selected)?	X		
2. Does the fact sheet discuss whether "ant backsliding" provisions were met for any limits that are less stringent than those in the previous NPDES permit?			X

II.C. Technology-Based Effluent Limits (POTWs)	Yes	No	N/A
1. Does the permit contain numeric limits for ALL of the following: BOD (or alternative, e.g., CBOD, COD, TOC), TSS, and pH?	X		
2. Does the permit require at least 85% removal for BOD (or BOD alternative) and TSS (or 65% for equivalent to secondary) consistent with 40 CFR Part 133?	X		
a. If no, does the record indicate that application of WQBELs, or some other means, results in more stringent requirements than 85% removal or that an exception consistent with 40 CFR 133.103 has been approved?			
3. Are technology-based permit limits expressed in the appropriate units of measure (e.g., concentration, mass, SU)?	X		
4. Are permit limits for BOD and TSS expressed in terms of both long term (e.g., average monthly) and short term (e.g., average weekly) limits?	X		
5. Are any concentration limitations in the permit less stringent than the secondary treatment requirements (30 mg/l BOD5 and TSS for a 30-day average and 45 mg/l BOD5 and TSS for a 7-day average)?		X	
a. If yes, does the record provide a justification (e.g., waste stabilization pond, trickling filter, etc.) for the alternate limitations?			X

II.D. Water Quality-Based Effluent Limits	Yes	No	N/A
1. Does the permit include appropriate limitations consistent with 40 CFR 122.44(d) covering State narrative and numeric criteria for water quality?	X		
2. Does the fact sheet indicate that any WQBELs were derived from a completed and EPA approved TMDL?			X

II.D. Water Quality-Based Effluent Limits – cont.	Yes	No	N/A
3. Does the fact sheet provide effluent characteristics for each outfall?	X		
4. Does the fact sheet document that a "reasonable potential" evaluation was performed?	X		
a. If yes, does the fact sheet indicate that the "reasonable potential" evaluation was performed in accordance with the State's approved procedures?	X		
b. Does the fact sheet describe the basis for allowing or disallowing in-stream dilution or a mixing zone?	X		
c. Does the fact sheet present WLA calculation procedures for all pollutants that were found to have "reasonable potential"?			X
d. Does the fact sheet indicate that the "reasonable potential" and WLA calculations accounted for contributions from upstream sources (i.e., do calculations include ambient/background concentrations)?	X		
e. Does the permit contain numeric effluent limits for all pollutants for which "reasonable potential" was determined?			X

5. Are all final WQBELs in the permit consistent with the justification and/or documentation provided in the fact sheet?	X		
6. For all final WQBELs, are BOTH long-term AND short-term effluent limits established?		X	
7. Are WQBELs expressed in the permit using appropriate units of measure (e.g., mass, concentration)?	X		
8. Does the record indicate that an "antidegradation" review was performed in accordance with the State's approved antidegradation policy?	X		

II.E. Monitoring and Reporting Requirements	Yes	No	N/A
1. Does the permit require at least annual monitoring for all limited parameters and other monitoring as required by State and Federal regulations?	X		
a. If no, does the fact sheet indicate that the facility applied for and was granted a monitoring waiver, AND, does the permit specifically incorporate this waiver?			
2. Does the permit identify the physical location where monitoring is to be performed for each outfall?	X		
3. Does the permit require at least annual influent monitoring for BOD (or BOD alternative) and TSS to assess compliance with applicable percent removal requirements?		X	
4. Does the permit require testing for Whole Effluent Toxicity?		X	

II.F. Special Conditions	Yes	No	N/A
1. Does the permit include appropriate biosolids use/disposal requirements?	X		
2. Does the permit include appropriate storm water program requirements?	X		

II.F. Special Conditions – cont.	Yes	No	N/A
3. If the permit contains compliance schedule(s), are they consistent with statutory and regulatory deadlines and requirements?			X
4. Are other special conditions (e.g., ambient sampling, mixing studies, TIE/TRE, BMPs, special studies) consistent with CWA and NPDES regulations?	X		
5. Does the permit allow/authorize discharge of sanitary sewage from points other than the POTW outfall(s) or CSO outfalls [i.e., Sanitary Sewer Overflows (SSOs) or treatment plant bypasses]?		X	
6. Does the permit authorize discharges from Combined Sewer Overflows (CSOs)?		X	
a. Does the permit require implementation of the "Nine Minimum Controls"?			X
b. Does the permit require development and implementation of a "Long Term Control Plan"?			X
c. Does the permit require monitoring and reporting for CSO events?			X
7. Does the permit include appropriate Pretreatment Program requirements?	X		

II.G. Standard Conditions	Yes	No	N/A
1. Does the **permit** contain all 40 CFR 122.41 standard conditions or the State equivalent (or more stringent) conditions?	X		

List of Standard Conditions – 40 CFR 122.41

Duty to comply
Duty to reapply
Need to halt or reduce activity not a defense
Duty to mitigate
Proper O & M
Permit actions
Property rights
Duty to provide information
Inspections and entry
Monitoring and records
Signatory requirement
Bypass
Upset
Reporting Requirements
Planned change
Anticipated noncompliance
Transfers
Monitoring reports
Compliance schedules
24-Hour reporting
Other non-compliance

2. Does the permit contain the additional standard condition (or the State equivalent or more stringent conditions) for POTWs regarding notification of new introduction of pollutants and new industrial users [40 CFR 122.42(b)]?	X		

Part III. Signature Page

Based on a review of the data and other information submitted by the permit applicant, and the draft permit and other administrative records generated by the Department/Division and/or made available to the Department/Division, the information provided on this checklist is accurate and complete, to the best of my knowledge.

Name	Deanna Austin
Title	Environmental Specialist Senior II
Signature	
Date	3/16/12

ATTACHMENT 12

CHRONOLOGY SHEET

Chronology

Friday, March 16, 2012

Facility Name: HRSD - York River Sewage Treatment Plant *VA0081311*

Event	*Date*	*Comment*
Application fee deposited:	—	NA-Reissuance
Comments rec'vd from State Agencies on App:	—	VDH 3/9/12
First Application Reminder Phone Call:	—	NA-App Received 2/24/12
Second Application Reminder Phone Call:	—	NA-App Received 2/24/12
Site visit:	— 5/3/2011	By Mark Kidd
Site inspection report:	— 5/4/2011	
Application received at RO 1st time:	— 2/24/2012	
App sent to State Agencies (list in comment field):	— 3/7/2012	Sent to VDH VMRC and DSS
App complete letter sent to permittee:	— 3/8/2012	
Application Administratively complete:	— 3/8/2012	
Application totally / technically complete:	— 3/8/2012	
Draft permit developed:	— 3/16/2012	
Old expiration date:	— 1/27/2013	
First DMR due:	— 3/10/2013	